Print Services Facility for z/OS

Messages and Codes

Version 4, Release 2.0

IBM

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Contents

About This Publication

This publication describes the messages and codes issued by Print Services Facility™ (PSF) Version 4, Release 2.0 for z/OS® (Program Number 5655-M32), including those for the optional AFP Download Plus and Download for z/OS features.

The return reason codes contained in PSF dumps are described in *PSF for z/OS: Diagnosis*. The program completion codes for the APSRCF30 utility are described in *PSF for z/OS: Customization*.

In this publication, the word *printing* refers to presentation on paper, foils, labels, or microfilm. (*Microfilm* can mean either microfiche or 16mm film.)

PSF runs on z/OS and z/OS.e systems. In this publication, the term "z/OS" refers to both systems, unless otherwise specified.

Who Should Read This Publication

This publication can be used by anyone who knows how to maintain and operate the printers that work with PSF for z/OS.

How This Publication Is Organized

Chapter 1, "PSF for z/OS Messages," lists the PSF messages in ascending numerical order, describes what the system does after an error occurs, and suggests what you should do to correct the problem. The message entries in this section provide:

Explanation
> The explanation gives more information about the condition that caused PSF to issue the message.

System Action
> The system action describes how the system responds to the condition.

User Response, System Programmer Response, and Operator Response
> The user response, the system programmer response, and the operator response provide actions for recovering from the error condition. Often this part of the entry gives more than one recovery action, or a series of related recovery actions; this means that more than one problem might have caused the error.

Problem Determination
> The problem determination section provides actions to follow as outlined in Appendix A, "Problem Determination." These actions are intended primarily for IBM representatives and should be used *only* if the system programmer and operator responses fail.

Chapter 2, "System Completion Codes and PSF Abend Reason Codes," lists all the PSF abend reason codes, in ascending numerical order. The code entries provide:

Explanation
> The explanation gives more information about the condition that caused PSF to abend.

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System Action
> The system action specifies whether PSF is to attempt to restart automatically, or is to stop processing.

System Programmer Response
> If present, the system programmer response provides a suggested action for recovering from the error condition.

Appendix A, "Problem Determination" describes the problem determination actions referred to in the message descriptions.

Appendix B, "Valid Scope Values for the CMR Descriptor Triplet" lists the valid scope values for the Color Management Resource (CMR) Descriptor triplet.

Appendix C, "Accessibility" describes the accessibility features available in z/OS.

Notices and a bibliography are included. The bibliography lists the publications containing additional information about the system, hardware, or software used by PSF, or about installation and maintenance.

Understanding Message and Code Notation

The following rules apply to coding illustrations throughout this publication:

- Uppercase or bold letters are to be coded as shown.
- Variable data is printed in italics. Enter specific data to replace the characters in italics.
- Do not enter these symbols as part of a parameter or option:

Vertical Bar	|
Underscore	___
Brackets	[ ]
Braces	{ }

- A vertical bar between two values means that you select one of the values.
- An underscored value means that if an option is not specified, the underscored value, called the default, is used.
- Brackets around a value mean that you do not have to select the value.
- Braces around a value mean that you must select one of the values.

Related Information

Publications that are referred to in this document or that contain additional information about AFP™, the z/OS operating system, PSF, and related products are listed in the "Bibliography" on page 565.

For additional information about z/OS and PSF for z/OS, refer to these Web pages:

```
http://www.ibm.com/systems/z/os/zos/
http://www.ibm.com/systems/z/zos/printsoftware/index.html
http://www.ibm.com/systems/z/zos/printsoftware/psfhome_z_ww.html
```

To obtain the latest documentation updates for z/OS base elements and optional features that result from DOC APARs and PTFs, refer to this DOC APARs and ++HOLD DOC Web page:

```
http://publibz.boulder.ibm.com/cgi-bin/bookmgr_OS390/Shelves/ZDOCAPAR
```

To obtain the latest documentation updates for PSF for z/OS, refer to the appropriate SYS1.SAMPLIB members in Table 1.

Table 1. SYS1.SAMPLIB Members for PSF Documentation Updates

Member	Publication
APSGADP2	*PSF for z/OS: AFP Download Plus*, S550-0433
APSGCUS2	*PSF for z/OS: Customization*, S550-0427
APSGDGN2	*PSF for z/OS: Diagnosis*, G550-0428
APSGDLG2	*PSF for z/OS: Download for z/OS*, S550-0429
APSGMAC2	*PSF for z/OS: Messages and Codes*, G550-0432
APSGSEC2	*PSF for z/OS: Security Guide*, S550-0434
APSGUSR2	*PSF for z/OS: User's Guide*, S550-0435

Using LookAt to View Message Explanations

LookAt is an online facility that lets you view explanations for most IBM messages and some system abends and codes. Using LookAt to find information is faster than a conventional search because in most cases LookAt goes directly to the message explanation.

To find a message explanation in LookAt, you enter the message identifier (for example, `IAT1836` or `IAT*`). Some messages have information in more than one document. For those messages, LookAt displays a list of documents that contain the message.

You can access LookAt from these locations:

Internet
> Access the LookAt Web site at:
>
> `http://www.ibm.com/systems/z/os/zos/bkserv/lookat/`

z/OS TSO/E host system
> Install code on your z/OS system to access LookAt from a TSO/E command line, such as TSO/E prompt, ISPF, or z/OS UNIX® System Services.

Microsoft® Windows® workstation
> Install code on your workstation to access LookAt from a Windows graphical user interface or a command prompt (also known as the DOS command line).

Wireless handheld device
> Link to the LookAt Mobile Edition from the LookAt Web site to access LookAt from a handheld device that has wireless access and an Internet browser, such as Internet Explorer for Pocket PCs; Blazer or Eudora for Palm OS; or Opera for Linux® handheld devices.

To install LookAt on your TSO/E host system or Windows workstation, you can obtain the code from:
- A CD-ROM in the *z/OS Collection*
- The *z/OS and Software Products DVD Collection*
- The LookAt Web site's **Download** link. More information is available in the LOOKAT.ME files available during the download process.

Summary of Changes

Summary of Changes for *PSF for z/OS: Messages and Codes*, G550-0432-01

This publication contains additions and changes to information previously presented in *PSF for z/OS: Messages and Codes*, G550-0432-00. Technical additions and changes are marked with a revision bar (|) in the left margin.

This edition contains new, changed, and deleted messages and abend reason codes. These general changes have been made throughout the publication:

- References to *MVS/ESA System Programming Library: Application Development Macro Reference* have been changed to *z/OS MVS Diagnosis: Tools and Service Aids*.
- References to *MVS/ESA System Programming Library: System Modifications Development Macro Reference* have been changed to *z/OS MVS Programming: Authorized Assembler Services Guide*
- References to *Advanced Communications Function for VTAM, Version 2, Programming* have been changed to *z/OS Communications Server: IP and SNA Codes*.
- Names for products owned by InfoPrint® Solutions Company have been changed from "Infoprint" to "InfoPrint".
- Message IDs APS2628A and APS6511A were changed to APS2628I and APS6511I.
- The new PSF messages are:

APS508I on page 152	APS2109I on page 336	APS6501A on page 419	APS8243I on page 440
APS519I on page 155	APS2110I on page 337	APS8017I on page 431	APS8244I on page 440
APS944I on page 282	APS2111I on page 337	APS8220I on page 435	APS8245I on page 440
APS2087I on page 328	APS2112I on page 337	APS8221I on page 435	APS8246I on page 441
APS2088I on page 329	APS2113I on page 338	APS8222I on page 436	APS8247I on page 441
APS2089I on page 329	APS2114I on page 338	APS8223I on page 436	APS8248I on page 441
APS2090I on page 330	APS2601I on page 385	APS8225I on page 436	APS8249I on page 441
APS2091I on page 330	APS2602I on page 385	APS8226I on page 436	APSH0049 on page 448
APS2092I on page 330	APS2603I on page 386	APS8227I on page 437	APSH0050 on page 448
APS2093I on page 331	APS2604I on page 386	APS8228I on page 437	APSH0051 on page 449
APS2094I on page 331	APS2633I on page 396	APS8229I on page 437	APSH0052 on page 449
APS2095I on page 332	APS2634I on page 396	APS8230I on page 437	APSH0053 on page 449
APS2096I on page 332	APS2635I on page 397	APS8231I on page 437	APSH0054 on page 449
APS2097I on page 332	APS2636I on page 398	APS8232I on page 438	APSH0055 on page 449
APS2098I on page 333	APS2637I on page 398	APS8233I on page 438	APSH0056 on page 449
APS2099I on page 333	APS2638I on page 399	APS8234I on page 438	APSH0057 on page 449
APS2100I on page 334	APS2639I on page 399	APS8235I on page 438	APSH0058 on page 449
APS2101I on page 334	APS2640I on page 400	APS8236I on page 438	APSH0059 on page 449
APS2102I on page 334	APS2641I on page 401	APS8237I on page 439	APSH0060 on page 449
APS2103I on page 335	APS2644I on page 402	APS8238I on page 439	APSH0061 on page 450
APS2104I on page 335	APS2645I on page 402	APS8239I on page 439	APSH0062 on page 450
APS2106I on page 335	APS2646I on page 403	APS8240I on page 439	APSH0063 on page 450
APS2107I on page 336	APS2647I on page 404	APS8241I on page 440	APSH0064 on page 450
APS2108I on page 336	APS2648I on page 404	APS8242I on page 440	

- The PSF messages to which technical changes have been made are:

APS109I on page 21	APS872I on page 261	APS3517I on page 412	APS8210I on page 433
APS225I on page 51	APS896I on page 271	APS3518I on page 412	APS8211I on page 434
APS249I on page 57	APS922I on page 271	APS3519I on page 412	APS8215I on page 434
APS298I on page 76	APS934I on page 279	APS4400I on page 416	APS8216I on page 434
APS369I on page 94	APS935I on page 280	APS4401I on page 417	APS8217I on page 434
APS400I on page 106	APS947I on page 283	APS4402I on page 417	APS8218I on page 435
APS401I on page 107	APS949I on page 283	APS4403I on page 417	APS8219I on page 435
APS500I on page 150	APS987I on page 291	APS6505I on page 420	APS8551I on page 442
APS502I on page 151	APS989I on page 292	APS6513I on page 422	APS8552I on page 442
APS512I on page 154	APS2022I on page 307	APS6514I on page 423	APS8553I on page 443
APS513I on page 154	APS2023I on page 308	APS6515I on page 424	APS8554I on page 443
APS520I on page 156	APS2024I on page 308	APS8014I on page 428	APS8555I on page 443
APS524I on page 157	APS2030I on page 311	APS8015I on page 429	APS8556I on page 444
APS532I on page 157	APS2078I on page 460	APS8016I on page 430	APS8558I on page 444
APS548I on page 159	APS2551I on page 362	APS8200I on page 431	APS8559I on page 444
APS565I on page 163	APS2553I on page 363	APS8201I on page 431	APS8565I on page 445
APS701I on page 189	APS2559I on page 366	APS8202I on page 431	APSH0002 on page 446
APS708I on page 193	APS2619I on page 390	APS8203I on page 431	APSH0003 on page 446
APS713I on page 195	APS2620I on page 390	APS8204I on page 432	APSH0004 on page 446
APS719I on page 197	APS2621I on page 391	APS8205I on page 432	APSH0005 on page 446
APS731I on page 202	APS2629I on page 395	APS8206I on page 432	APSH0006 on page 446
APS830I on page 243	APS3514I on page 410	APS8207I on page 433	APSH0013 on page 447
APS858I on page 255	APS3515I on page 411	APS8208I on page 433	APSH0019 on page 448
APS860I on page 256	APS3516I on page 411	APS8209I on page 433	

- Message APS1013I has been removed from this publication.
- The new abend reason codes are:

00D9 on page 457	03E2 on page 487	03FC on page 490	08D9 on page 517
0247 on page 471	03F0 on page 489	03FD on page 490	08DA on page 517
03D0 on page 486	03F1 on page 489	03FE on page 490	0DAA on page 545
03D1 on page 486	03F2 on page 489	0422 on page 493	0DAB on page 545
03D2 on page 486	03F3 on page 489	0423 on page 494	0DB0 on page 545
03D3 on page 486	03F4 on page 489	0725 on page 507	0DB1 on page 545
03D4 on page 486	03F5 on page 489	0726 on page 507	0DB2 on page 545
03D5 on page 486	03F6 on page 489	07C2 on page 511	0DB3 on page 546
03D6 on page 486	03F7 on page 490	07C3 on page 511	0DB4 on page 546
03D7 on page 486	03F8 on page 490	07C4 on page 511	0DB7 on page 546
03D8 on page 487	03F9 on page 490	07C5 on page 511	0DB8 on page 546
03D9 on page 487	03FA on page 490	07C6 on page 512	0DB9 on page 546
03E1 on page 487			

- The technically changed abend reason codes are:

020B on page 466	0407 on page 491	0D84 on page 542	0DA8 on page 545
020D on page 466	07C1 on page 511	0D86 on page 542	0E51 on page 549
0264 on page 472	0D78 on page 541	0D88 on page 542	0E9B on page 551
03E4 on page 487	0D79 on page 541		

- Table 2 on page 557 has been updated with new problem determination instructions.
- Appendix B, "Valid Scope Values for the CMR Descriptor Triplet," on page 559 has been added.

Chapter 1. PSF for z/OS Messages

Message Destinations

PSF for z/OS (hereafter referred to as PSF) issues messages to one or more of the following destinations, depending on which is most appropriate:

Operator's console
Messages that the operator or system programmer must address.

Security administrator's console
Messages reporting security violations or errors in the processing of security functions.

Job submitter's console
Messages reporting the completion or failure of a job to print.

In the printed output
Messages reporting the position from which data is retransmitted during a recovery.

Following the printed output
Messages describing errors in the data stream. Also, a duplicate copy of any message issued in the printed output.

SYSLOG data set
Issued if the NOTIFY parameter is specified on the JCL for the data set being transmitted.

stderr Some messages issued by PSF running under z/OS UNIX System Services, hereafter referred to as UNIX System Services.

Log file
Some messages issued by PSF running under UNIX System Services.

Format of the Messages

Each PSF message has a seven- or eight-character message identifier followed by message text, such as:

APS_nnnnt_ _MESSAGE_ _TEXT_
or
APSH_nnnn_ _message_ _text_

where:

APS Identifies PSF messages.

H Indicates that PSF is running under UNIX System Services.

nnnn Three- or four-digit message number.

_t_ One-character type code:

Type code	Meaning
A	Message requiring operator action
I	Information message

1

MESSAGE TEXT
message text

> PSF message text describes the condition that caused PSF to issue the message. For APSH*nnnn* messages, the message text is in mixed case; otherwise, the text is in upper case.
>
> The message text can include these types of codes:
> * Dynamic allocation error codes
> * Event Control Block (ECB) completion codes
> * Status codes
> * PSF return reason codes
> * PSF abend reason codes
> * System completion codes
> * SNA sense codes
> * VTAM® codes
> * In APSH*nnnn* messages, error numbers issued by the C run-time library
> * In APSH*nnnn* messages, error explanations issued by the C run-time library

In system console messages, additional information is inserted between the message ID and the message text. This information identifies the specific functional subsystem application that issued the message. Most system console messages have the following format:

APS*nnnnt jobname jobstep procstep printer name attachment MESSAGE TEXT*

where:

jobname	The job name of the startup procedure.
jobstep	The FSS name in the job.
procstep	The step name in a procedure. When PSF is managing a system output device for deferred printing under JES, this item is not filled in.
printer name	The name of the printer.
attachment	*(SNA)*—For a Systems Network Architecture-attached printer.
	(tcpname)—For a TCP/IP-attached printer. *tcpname* is the name of the TCP/IP startup procedure.
	(nnn)—For a channel-attached printer with a three-digit device number. *nnn* is the device number.
	(nnnn)—For a channel-attached printer with a four-digit device number. *nnnn* is the device number.
	(***)—If the value cannot be determined.

For Download for z/OS messages, APS095I and APS986I through APS997I, the format is similar:

APS*nnnnt jobname jobstep *** *** *** MESSAGE TEXT*

jobname	The job name of the startup procedure.
jobstep	The FSS name within the job.

Responding to a Message

When you get a message, use any codes in the message text, in addition to message description information, to determine a recovery procedure. This publication describes PSF abend reason codes and system completion codes. If there is not an explanation in this publication for the code in your message, you are referred to another publication that contains the information you need.

If you need to determine the module that issued the message, refer to the message-to-module cross-reference table in *PSF for z/OS: Diagnosis*.

PSF often issues more than one message for an error condition. When this occurs, use all the messages to define and correct the error.

PSF Messages

APS000I *subsystem* **SUBSYSTEM ACTIVE.**

Explanation: The PSF Direct Printer Services Subsystem is active.

System action: This message is only for information.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS001I *subsystem* **SUBSYSTEM INITIALIZATION FAILED, RC =** *return code*, **[MODULE ACCESSED** *module*].

Explanation: The PSF Direct Printer Services Subsystem identified in this message failed to initialize. If you are using a 3800, until the problem is resolved, the 3800 can be directly allocated only if it is in compatibility mode.

System action: The PSF Direct Printer Services Subsystem is not active.

User response: No response is necessary.

System programmer response: The associated return code issued by the subsystem service routine is given in this message.

If the return code is 12, a GETMAIN failure has occurred. For more information, refer to *PSF for z/OS: Diagnosis*.

If the return code is 20, the module accessed is not in SYS1.LINKLIB or a library concatenated to a SYS1.LINKLIB (in LNKLSTxx PARMLIB member). Link-edit the module to SYS1.LINKLIB or to a concatenated library.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17.

APS002A **INCORRECT REPLY — RE-SPECIFY.**

Explanation: An incorrect response was given to a previous load forms flash or to a thread-to-stacker message.

System action: Processing stops until the operator responds to this message.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the correct reply. See message APS003A for the correct reply.

Problem determination: None.

APS003A **SETUP** *jobname procstep jobstep ddname (nnnn)* **O=***forms flash frame*, **B={Y | N} F=***forms*—**REPLY 'U' OR 'CANCEL'.**

Explanation: *(nnnn)* is the three- or four-digit device number of the printer. The forms flash frame, identified by O= in this message, is the frame specified by the FORMS FLASH keyword on the JCL. B= indicates whether the BURST keyword on the JCL specified yes or no for the burster-trimmer-stacker feature. F= specifies the form used with the job. The setup must be consistent with the JCL specified for this print request.

This message identifies one or more of these parameters. If one of these parameters is not specified here, it was not specified on the JCL.

System action: Processing stops until the operator responds to this message.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter one of the following replies, where *nn* is the number the system specified when issuing this message:

- R*nn*,U. This reply returns a hexadecimal code verifying either that the requested setup has been completed, or that the setup commands are to be ignored if the setup cannot be completed.

- R*nn*,CANCEL. This reply causes a subsystem output block (SSOB) return code of X'04' to be passed back to the data management open routine. Return code X'04' indicates that the print request is canceled.

Problem determination: None.

APS004I   *subsystem* **SUBSYSTEM INITIALIZATION PARAMETER INCORRECT, 1 ASSUMED.**

Explanation: The PSF Direct Printer Services Subsystem initialization parameter specified in the IEFSSN*xx* PARMLIB member is not valid. A parameter with more than 8 characters or non-numeric characters causes this message.

System action: The PSF Direct Printer Services Subsystem continues to initialize.

User response: No response is necessary.

System programmer response: Correct the initialization parameter specified in the IEFSSNxx PARMLIB member. For information about correcting the initialization parameter in the IEFSSNxx PARMLIB member, refer to *PSF for z/OS: Customization*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS005I   **PSF INITIALIZATION FAILED, REASON CODE** *rc*.

Explanation: PSF initialization failed, for the reason given in one of the following reason codes:

04	GETMAIN for DPSS control block failed.
08	SJFREQ FINDSWB failed.
0C	SJFREQ retrieve failed.
10	GETMAIN for SSXB failed.
14	APSAFSA attach failed.
18	PSF abended.
1C	Operator specified cancel in response to message APS003A.

System action: The print job is not started or is discontinued at its current location.

User response: No response is necessary.

System programmer response: If the problem is a GETMAIN failure, increase the REGION size parameter.

If the problem is a SJFREQ failure, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM® Support Center. If the problem is an attach failure, check to see that PSF is accessible to DPSS. For an operator cancel, no response is necessary.

Operator Response: For an operator cancel, have the user resubmit the print request, and do not cancel it.

Problem determination: Items 1, 9, 17.

APS006I   **PSF INITIALIZATION FAILED; MAXIMUM DIRECT ATTACH FSA'S EXCEEDED.**

Explanation: PSF initialization failed because a request was made to attach more FSAs than the maximum specified in SYS1.PARMLIB.

System action: The print job is not started.

User response: No response is necessary.

System programmer response: Either raise the maximum FSA number in SYS1.PARMLIB, or have the user resubmit the job when Direct Attach is not at capacity.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS018I   **JOB TERMINATED AS REQUESTED BY THE PSF MESSAGE EXIT**

Explanation: The Message Exit requested ending the job.

System action: The job stops processing.

User response: Notify your system programmer of this error.

System programmer response: Evaluate why the Message Exit ended the job and take any appropriate action.

Operator Response: No response is necessary.

Problem determination: None.

APS020I   **PRINTING TERMINATED BECAUSE RECOVERY IS INHIBITED.**

Explanation: An exception occurred for which the normal PSF recovery is to resend pages to the printer which might have already printed. The Printer Inventory or Exit 7 specified that this recovery should not be performed.

System action: PSF ends the current print job.

User response: Resubmit the print job to reprint the incomplete portion of the print data, if needed.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 3, 8.

APS021I   AN INCORRECT REQUEST FROM THE LOGICAL RECORD EXIT WAS DETECTED FOR LOGICAL RECORD *logical record*. **PLEASE INFORM YOUR SYSTEM PROGRAMMER.**

Explanation: An incorrect request was returned by the logical record processing exit 04 or 14.

System action: The original record is processed.

User response: Inform your system programmer that this error occurred.

System programmer response: Verify that recent changes have not caused an error in the logical record processing exit.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 3, 17, 19, 26.

APS022I   INCORRECT PSF INVOCATION.

Explanation: PSF was incorrectly started with an MVS™ START command entered from a system console.

System action: PSF ends without establishing communication with the Job Entry Subsystem (JES).

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Use the appropriate JES command to start the device or writer. For the appropriate JES command, refer to the JES commands publication for the level of JES you are using.

Problem determination: Items 1, 26.

APS023I   FSA INITIALIZATION WAS TERMINATED BY *PSF subcomponent*.

Explanation: The PSF Functional Subsystem Application (FSA) initialization was stopped by the PSF subcomponent identified in this message.

System action: The device does not start.

User response: No response is necessary.

System programmer response: To determine an appropriate response, see the specific console message issued by the PSF subcomponent that failed to initialize.

Operator Response: To determine an appropriate response, see the specific console message issued by the PSF subcomponent that failed to initialize.

Problem determination: Items 1, 17, 19, 26.

APS024I   STOP FSA WITH ABEND REQUESTED.

Explanation: PSF received the functional subsystem interface (FSI) request to abend the functional subsystem application (FSA).

System action: PSF abends the FSA.

User response: No response is necessary.

System programmer response: To determine an appropriate action, check the MVS console for any JES commands issued to the FSS that might have caused JES to request that the FSS be dumped. Save the dump for IBM Support Center use.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 17, 19, 26.

APS025I   STOP FSS WITH ABEND REQUESTED.

Explanation: PSF received the functional subsystem interface (FSI) request to abend the functional subsystem (FSS).

System action: PSF abends the PSF FSS address space.

User response: No response is necessary.

System programmer response: To determine an appropriate action, check the MVS console for any JES commands issued to the FSS that might have caused JES to request that the FSS be dumped. Save the dump for IBM Support Center use.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9. 17, 19, 26.

APS026I   {HASPxxxx *(JES2 message text)* **I IATxxxx (***JES3 message text***)}**

Explanation: This message is a null message. It contains no text generated by PSF; it is simply a carrier for a JES2 message or a JES3 message. If the operator entered a Forward Space command, processing of the data set might be stopped while forward spacing, in which case no end messages are printed.

System action: This message is only for information.

User response: The printed output might be acceptable. If any pages were duplicated or skipped, you might want to resubmit the print request. If the error persists, consult your system programmer.

System programmer response: For more information, refer to the JES messages publication for the level of JES you are using.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS030I   **PRINT DATA SET DISPOSITION NOT CHANGED AS REQUESTED BY PRTERROR BECAUSE** *reason*.

Explanation: Processing of the output data set was stopped due to an error, but the disposition of the data set was not changed for one of the following reasons:

- HONOR PRTERROR IS NOT INITIALIZED. The Error disposition supported option in the Printer Inventory does not specify Yes or the PRINTDEV initialization statement for this printer does not specify PRTERROR=HONOR.
- A PSF EXIT REQUESTED THE DATA SET BE HELD. PSF installation exit 6 or 7 specified that the data set should be held.
- MANDATORY PRINT LABELING IS IN EFFECT. The RACF® (Resource Access Control Facility) class PSFMPL is active on the system.

System action: The default disposition for the error is taken, or, if an exit requested it, the data set is held.

User response: If honor PRTERROR is not initialized, ask your system programmer to initialize it.

System programmer response: If users are to be allowed to set the error disposition, set Error disposition support to Yes in the Printer Inventory or add PRTERROR=HONOR on the PSF PRINTDEV statement for the printer.

Operator Response: No response is necessary.

Problem determination: Items 2, 3, 12, 13.

APS031I   **AN I/O ERROR WAS DETECTED WHILE READING THE DATA SET FROM THE JES SPOOL. RESUBMIT THE JOB.**

Explanation: An I/O error was detected while the data set was being read from the Job Entry Subsystem (JES) spool.

System action: Processing of the data set ends.

User response: Resubmit the print request.

System programmer response: To determine an appropriate action, see the JES I/O error message.

Operator Response: Request that the user resubmit the job.

Problem determination: Items 1, 3, 17, 19, 26.

APS032I   **A SPANNED RECORD LONGER THAN THE MAXIMUM ALLOWABLE RECORD LENGTH WAS DETECTED. PLEASE INFORM YOUR SYSTEM PROGRAMMER.**

Explanation: PSF detected a Job Entry Subsystem (JES) record too long to process. The maximum length for a PSF record is 32,768 bytes.

System action: The partial record is processed, and processing for the current data set ends. The data set is requeued and held.

User response: Inform your system programmer that this error occurred.

System programmer response: Ensure that the maximum record length for JES does not exceed the maximum record length for PSF.

Operator Response: After the error has been corrected, release the data set. For the appropriate command to release the data set, refer to the JES commands publication for the level of JES you are using.

Problem determination: Items 1, 3, 17, 19, 26.

APS033I   **A NONSPANNED RECORD OR THE START OF ANOTHER SPANNED RECORD WAS DETECTED WHILE A SPANNED RECORD WAS BEING COMPOSED. PLEASE INFORM YOUR SYSTEM PROGRAMMER.**

Explanation: While composing a spanned record, PSF detected the start of another spanned or nonspanned record. The error is caused by the Job Entry Subsystem (JES).

System action: The partial record is processed, and processing for the current data set ends. The data set is requeued and held.

User response: Inform your system programmer that this error occurred.

System programmer response: To determine an appropriate action, refer to the JES I/O error message.

Operator Response: After the error has been corrected, release the data set. For the appropriate command to release the data set, refer to the JES commands publication for the level of JES you are using.

Problem determination: Items 1, 3, 17, 19, 26.

APS034I   **THE END OF THE DATA SET WAS REACHED BEFORE THE END OF A SPANNED RECORD WAS FOUND. PLEASE INFORM YOUR SYSTEM PROGRAMMER.**

Explanation: PSF reached the end of the data set without finding the end of a spanned record. The error is caused by the Job Entry Subsystem (JES).

System action: The partial record is processed. The data set is requeued and held.

User response: Inform your system programmer that this error occurred.

System programmer response: To determine an appropriate action, refer to the JES I/O error message.

Operator Response: After the error has been corrected, release the data set. For the appropriate command to release the data set, refer to the JES commands publication for the level of JES you are using.

Problem determination: Items 1, 3, 17, 19, 26.

APS035I	THE FIRST SPANNED RECORD PROCESSED WAS NOT THE BEGINNING OF A SPANNED RECORD. PLEASE INFORM YOUR SYSTEM PROGRAMMER.

Explanation: The first spanned record in the data set is not the beginning of a spanned record.

System action: The partial spanned record is processed. Processing of the current data set ends. The data set is requeued and held.

User response: Inform your system programmer that this error occurred.

System programmer response: To determine an appropriate action, see the Job Entry Subsystem (JES) I/O error message.

Operator Response: After the error has been corrected, release the data set. For the appropriate command to release the data set, refer to the JES commands publication for the level of JES you are using.

Problem determination: Items 1, 3, 17, 19, 26.

APS036I	END OF THE DATA SET WAS REACHED BEFORE A NON-RESOURCE RECORD WAS FOUND.

Explanation: PSF reached the end of a data set before finding a nonresource record containing data rather than a resource. A nonresource record is a record from a line-data or Mixed Object Document Content Architecture™ (MO:DCA™) data file.

System action: Processing for the current data set is ended.

User response: Ensure that the data set contains line-data records or MO:DCA data, and then resubmit the job.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 3, 17, 19, 26.

APS037I	RESTARTED DATA SET IS EMPTY.

Explanation: PSF attempted to restart a data set from a Job Entry Subsystem (JES) checkpoint, but the data set was empty.

System action: Processing for the data set is ended.

User response: No response is necessary.

System programmer response: If you feel this message was issued in error, obtain a PSF dump on the message and see problem determination item 27.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3, 17, 19, 26, 27.

APS038I	RESTART PROCESSING IS BEGINNING FOR THE ABEND REPORTED ABOVE.

Explanation: An abend has occurred that PSF considers a candidate for restart processing. The abend condition is described in the preceding APS050I message.

System action: All active data sets are released, and PSF attempts to restart. PSF does not produce a dump unless the abend code was specified on the Dump: Message ID option in the Printer Inventory or the DUMP parameter of the PRINTDEV statement in the PSF startup procedure. If the restart is successful, message APS057I is issued, and PSF restarts by requesting a new data set from JES. If the restart is unsuccessful, PSF issues message APS053I and then ends.

User response: No response is necessary.

System programmer response: If the restart is successful, but the abend condition is frequently producing a restart, you can specify the abend reason code on the DUMP parameter in the PSF startup procedure to generate a conditional dump. For more information about the DUMP parameter, refer to *PSF for z/OS: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 26, 27.

APS039I	DUE TO AN I/O ERROR ON THIS DATA SET OR AN OPERATOR COMMAND, REPOSITIONING OR AN INTERRUPT FUNCTION MAY HAVE CAUSED PAGE *nnn* TO BE DUPLICATED.

Explanation: An I/O error occurred previously on this

data set, or an operator command was entered at a time when insufficient information was available to reposition accurately. Repositioning was done, and either it was successful, or a page was duplicated.

Page *nnn* is a relative page number from the beginning of your data set. The relative page number includes header pages, message pages, and multiple transmissions of the data set.

System action: Processing of the data set continues. This message was issued to the JES operator console and was appended to the message data set.

User response: Examine your output for duplicate pages.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS040I   DATA SET RESTART PROCESSING WAS TERMINATED IN DIRECT-PRINTING MODE.

Explanation: PSF attempted to restart the current data set while the printer was directly attached. Restart processing is not supported when a printer is being used in direct-printing mode.

System action: Processing for the current data set ends.

User response: No response is necessary.

System programmer response: Examine the accompanying PSF messages, if any, to determine why PSF attempted to restart the data set.

Operator Response: Examine the accompanying PSF messages, if any, to determine why PSF attempted to restart the data set.

Problem determination: Items 1, 2, 3, 4a, 8, 9, 12, 17.

APS041I   STOP DEVICE WITH ABEND REQUESTED.

Explanation: PSF received the functional subsystem interface (FSI) request to abend the PSF Functional Subsystem Application (FSA).

System action: PSF abends the FSA.

User response: No response is necessary.

System programmer response: To determine an appropriate action, check the MVS console for any JES commands issued to the FSA that might have caused JES to request that the FSA be dumped. Save the dump for IBM Support Center use.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 19, 26.

APS042I   SDUMP CREATED A PARTIAL DUMP.

Explanation: The PSF ESTAE routine received a return code of X'04' after returning from the system's SVC dump routine. This indicates that a partial dump was taken.

System action: Abend processing continues.

User response: No response is necessary.

System programmer response: Verify your SVC dump method, and then refer to *z/OS MVS Diagnosis: Tools and Service Aids*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 26.

APS043I   DUMP WAS NOT TAKEN FOR STOP ORDER.

Explanation: A Stop Device functional subsystem interface (FSI) order with the dump option was received. PSF received a return code of X'08' from the system's SVC dump routine.

System action: Device termination continues.

User response: No response is necessary.

System programmer response: Verify your SVC dump method, and then refer to *z/OS MVS Diagnosis: Tools and Service Aids*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 19, 26.

APS044I   SDUMP WAS UNSUCCESSFUL. REASON CODE=*reason code***.**

Explanation: The PSF ESTAE routine received a return code of X'08' from the system's SVC dump routine. This indicates that an SVC dump was unsuccessful.

System action: Abend processing continues.

User response: No response is necessary.

System programmer response: If you receive reason code '0B'X, Dump Analysis Elimination (DAE) has suppressed the dump because a dump of the same nature had occurred earlier. Check SYS1.DAE data set for a symptom string matching the dump that was just taken.

If you receive reason code '05'X, verify your SVC dump method, and then refer to *z/OS MVS Diagnosis: Tools and Service Aids*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 26.

APS045I   **DEVICE** *device* **(***address***) COULD NOT BE ALLOCATED. DYNALLOC ERROR CODE =** *error code* **AND INFORMATION REASON CODE =** *reason code***.**

Explanation: PSF attempted to dynamically allocate the device with the address identified in this message. PSF failed for one of the following reasons:

- The device was already allocated (DYNALLOC error code = X'0214').
- The operator denied the device allocation (DYNALLOC error code = X'0484').
- The specified ddname was already allocated (DYNALLOC error code = X'0410').

System action: The printer does not start.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Before starting the device or writer, verify that the device is not allocated to another address space. If the allocation was denied by the operator, ensure that the device or writer that requires this device is not started. To interpret the DYNALLOC error code, refer to *z/OS MVS Programming: Authorized Assembler Services Guide*.

Problem determination: Items 1, 19, 26.

APS046I   **THE SECOND | THIRD VALUE IN THE 'PARM=' FIELD OF THE 'EXEC' JCL STATEMENT IS NOT VALID. IT MUST BE '***valid values***'. PROCESSING CONTINUES, USING VALUE 'INTR' | 'NOPROMPT'.**

Explanation: The indicated values in the PARM field on the EXEC statement are not correct. Valid values for the second PARM value are: FULL, SYNC, INTR, LIMIT, and IPDS™. Valid values for the third PARM value are PROMPT and NOPROMPT. For the correct format of the EXEC statement, refer to *PSF for z/OS: Diagnosis*.

System action: The procedure starts, using the indicated default parameter value as the external trace specification.

User response: No response is necessary.

System programmer response: Correct the PARM information in the JCL. For more information, refer to *PSF for z/OS: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS047I   *device* **(***address***) SMF TYPE 6 RECORD WAS NOT WRITTEN, RETURN CODE** *'nn'* **WAS RECEIVED FROM SMFWTM MACRO.**

Explanation: PSF attempted to write a Systems Management Facility (SMF) Type 6 record by use of the SMFWTM macro. The SMFWTM macro return code indicated that the SMF Type 6 record was not written.

System action: If mandatory print labeling is active, PSF abends. Otherwise, processing continues.

User response: No response is necessary.

System programmer response: To interpret the SMFWTM macro return codes, refer to the System Management Facility publication for your operating system.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS048I   **THE FOURTH VALUE (PAGECOUNT) IN THE 'PARM =' FIELD OF THE 'EXEC' JCL STATEMENT IS NOT VALID. IT MUST BE AN INTEGER IN THE RANGE OF 1 TO 999. A VALUE OF** *nn* **WILL BE USED.**

Explanation: The fourth value in the PARM field of the EXEC statement is not an integer in the range of 1 to 999. For the correct format of the EXEC statement, refer to *PSF for z/OS: Diagnosis*.

System action: The actual value is specified in the message. The value used was 4 if the value specified was less than 1 or was not a decimal integer. A value of 999 was used if the value specified exceeded 999.

User response: No response is necessary.

System programmer response: Correct the PARM information in the JCL. For more information, refer to *PSF for z/OS: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS049I   **NO TIME-OF-DAY OR DATE VALUES WERE INSERTED IN THE SMF TYPE 6 RECORD.**

Explanation: During the processing of the SMF Type 6 record, a nonzero return code was received when the time of day and the date were being established (SVC 11).

System action: If mandatory print labeling is active, PSF abends. Otherwise processing continues, and the record is written without these values.

User response: No response is necessary.

System programmer response: Determine the cause of the SVC 11 failure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS050I   **SYSTEM COMPLETION CODE** *system completion code*, **PSF ABEND REASON CODE** *reason code*, **HAS BEEN DETECTED BY** *estae name*, **ISSUED BY MODULE** *abending module name*.

Explanation: The PSF ESTAE routine detected a PSF abend condition.

System action: Depending on the error condition, PSF automatically restarts the printer, stops processing for the printer, or stops the PSF address space. A subsequent message from PSF tells the operator which action was taken.

An ESTAE routine takes an SVC dump, unless a dump was provided by an earlier routine or the functional subsystem interface (FSI) requested that no dump be taken.

User response: Inform your system programmer that this error occurred.

System programmer response: Examine the accompanying PSF message to determine the appropriate response.

To interpret system completion codes X'024', X'027', and X'0A6', see Chapter 2, "System Completion Codes and PSF Abend Reason Codes," on page 451.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3, 9, 17, 19, 26.

APS051I   **PSF ABNORMAL TERMINATION.**

Explanation: The PSF ESTAE issued this message as part of processing a PSF abend condition. Message APS050I or APS055I should have also been issued as part of the PSF abend processing. The ESTAE routine should have provided an SVC dump.

System action: Abend processing continues.

User response: Inform your system programmer that this error occurred.

System programmer response: Use the information provided in message APS050I or APS055I to determine an appropriate response. Save the dump for IBM Support Center use.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3, 9, 17, 19, 26.

APS052I   **MANDATORY PRINT LABELING IS NOT SUPPORTED BY JES.**

Explanation: The installed version of the Job Entry Subsystem (JES) does not support mandatory print labeling.

System action: The data set being processed at the time of the error was returned to the Job Entry Subsystem (JES) to place on the HOLD queue.

User response: No response is necessary.

System programmer response: Install the correct release of JES if mandatory print labeling is required.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS053I   **ABEND RESTART PROCESSING HAS FAILED. ABEND PROCESSING FOR THE ORIGINAL ABEND WILL BEGIN.**

Explanation: PSF was unable to restart following the abend reported in the previous APS050I message. The original abend is processed, and a dump is taken.

System action: Abend processing continues.

User response: No response is necessary.

System programmer response: Use the information provided in the APS050I message that reported the original abend to diagnose the problem.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 26, 27.

APS054I   **PSF HAS COMPLETED AN SDUMP.**

Explanation: PSF successfully completed an SVC dump to a SYS1.DUMPnn data set.

System action: Abend processing continues.

User response: No response is necessary.

System programmer response: Save the dump for IBM Support Center use.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: 1, 3, 9, 17, 19, 26.

APS055I   **PSF ESTAE CANNOT EVALUATE SYSTEM COMPLETION CODE** *system completion code* **ISSUED BY MODULE** *abending module name*. **ABNORMAL TERMINATION PROCESSING WILL CONTINUE.**

Explanation: The PSF ESTAE routine is unable to continue, for one of the following reasons:

- The abend reason code was not issued by PSF.
- The abend reason code was not stored in the function subsystem (FSB) control block.
- The FSB control-block address was incorrect.

System action: Abend processing continues.

User response: Inform your system programmer that this error occurred.

System programmer response: The contents of the registers at the time of the abend are provided in the SVC dump and register 15 might contain a PSF abend reason code. Save the dump for IBM Support Center use. To interpret the dump, refer to *PSF for z/OS: Diagnosis*. To interpret the system completion code, refer to the publication containing system messages for your operating system.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3, 9, 17, 19, 26.

APS056I   **SYSTEM-DEFINED USER PRINTABLE AREA WAS REQUESTED ON A NONSECURE PRINTER.**

Explanation: SYSAREA = YES was specified for a printer that does not support security functions. This JCL parameter was on the OUTPUT statement for the job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: If security page labeling is required, submit the print request to a printer that supports security functions. If security labeling is not required, change the OUTPUT JCL statement to remove the SYSAREA keyword.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 3.

APS057I   **ABEND RESTART PROCESSING HAS COMPLETED.**

Explanation: PSF has successfully completed abend restart processing and continues processing. A new job is requested from JES.

System action: Processing continues.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: The output from the data set that was printing when the abend occurred might need to be discarded, because the entire data set might be printed again after the restart. However, the data set

that was printing when the abend occurred is not necessarily the next one to print after PSF restarts.

Problem determination: Items 1, 26, 27.

APS060I   **MANDATORY PRINT LABELING IS NOT AVAILABLE UNDER DIRECT-PRINTING MODE.**

Explanation: Mandatory Print Labeling has been requested in direct-printing mode, but it is not allowed in that mode.

System action: PSF issues message APS005I and then abends.

User response: Inform your system programmer that this error occurred.

System programmer response: Deactivate class PSFMPL, using the Resource Access Control Facility (RACF). For information on how to do this, refer to the RACF publications.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS061I   **SYSTEM ACTION TAKEN: THE ERRORS LISTED PREVENTED PRINTING OF THE JOB. ALL DATA SETS IN THE JOB WILL BE HELD.**

Explanation: While processing the job, PSF detected an error that makes printing the job in a secure environment impossible.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: No response is necessary.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: 1, 2, 3, 8, 17.

APS062I   **NODE** *nodeid* **IS NOT VALID—JOB=***jobname* **STEP=***stepname* **ID=***jobid* **ON** *system-id***.**

Explanation: The print request identified in the message contained a node specified with the NOTIFY keyword that the system does not recognize as valid.

System action: The print request was processed, but the node identified as not valid prevents the user from being notified that the processing of the print request has been completed.

User response: Notify the individuals directly that processing of the print request has been completed. If

the print request is to be resubmitted for printing, correct the incorrect node ID.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS063I   PRINT REQUEST COMPLETED—JOB=_jobname_ **STEP=**_jobstep_ **ID=**_jobid_ **AT** _system-id_**.**

Explanation: Processing of the print request identified in the message has completed successfully. The print-job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request. When the printer is connected to PSF by use of the Distributed Print Function (DPF) of PSF, this message indicates only that PSF has completed its processing of the print request. The final disposition of the print request is controlled by DPF.

System action: PSF continues processing.

User response: The printed output is available at the printer, unless the printer is connected to PSF by use of DPF.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS064I   PRINT REQUEST CANCELED—JOB=_jobname_ **STEP=**_jobstep_ **ID=**_jobid_ **AT** _system-id_**.**

Explanation: Processing of the print request identified in the message has been canceled. The print-job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request.

System action: PSF continues processing with the next print request.

User response: Examine the PSF messages in the printed output to determine why the print request was canceled.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS065I   PRINT REQUEST INTERRUPTED—JOB=_jobname_ **STEP=**_jobstep_ **ID=**_jobid_ **AT** _system-id_

Explanation: Processing of the print request identified in the message has been interrupted by the operator. The print-job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request.

System action: The print request was returned to the Job Entry Subsystem (JES) and can be restarted by the operator.

User response: Examine the PSF messages in the printed output to determine why the print request was interrupted, or consult your system operator.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS066I   PRINT REQUEST UNSUCCESSFUL—JOB=_jobname_ **STEP=**_jobstep_ **ID=**_jobid_ **AT** _system-id_**.**

Explanation: Processing of the print request identified in the message has completed unsuccessfully. The print-job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request.

System action: See the accompanying messages for the system action that was taken.

User response: Examine the PSF messages in the printed output to determine the cause of the error.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS067I   PRINT REQUEST MARKED UNPRINTABLE—JOB=_jobname_ **STEP=**_jobstep_ **ID=**_jobid_ **AT** _system-id_**.**

Explanation: PSF processing of the print request identified in the message has determined that the data set is not printable. The print-job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request.

System action: The print request was returned to the Job Entry Subsystem (JES) to be placed on the HOLD queue with a PSF message ID.

User response: Examine the PSF messages in the printed output to determine why the print request was unprintable.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS068I   **SUBMITTER** *submitter-id* **NOT AUTHORIZED TO SEND PRINT STATUS TO USERID=***user ID* **ON** *system-id.*

Explanation: The submitter of this print job has not been given authority to send the message to the user on the receiving system.

System action: PSF continues processing the notify request.

User response: Inform your system programmer that this error occurred.

System programmer response: Determine whether the user should be authorized to send the message (defined in the RACF SMESSAGE class). If the user should be authorized, use RACF to give the user the needed authorization. For information on how to do this, refer to *z/OS Security Server RACF Security Administrator's Guide* for your operating system.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 29.

APS069I   **NOTIFY ERROR** *decimal-code* **FOR USER** *user ID*— **JOB=***jobname* **STEP=***stepname* **ID=***jobid* **AT** *system-id.*

Explanation: A notify request was unsuccessful; the decimal code indicates the cause of the failure.

Decimal
Code   **Explanation**

04   PSF logic error. Message truncated.

08   Exit canceled notify request. A system installation exit (not a PSF exit) has canceled the notify request. Inform your system programmer that this error occurred.

12   PSF logic error. No user ID specified.

20   PSF logic error. Notify extension ID is not valid.

24   PSF logic error. Notify version is not valid.

28   No storage for request. The Job Entry Subsystem (JES) cannot obtain enough storage in subpool 231 to satisfy the request. The system programmer must determine why insufficient storage is available.

36   PSF logic error. Error in message specification.

System action: PSF continues processing the notify request.

User response: Inform your system programmer that this error occurred.

System programmer response: For codes "08" and "28", see the explanation for the code. For all other codes, follow the procedures described in *PSF for z/OS: Diagnosis* before consulting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 29.

APS070I   **NOTIFY ERROR** *decimal-code* **FOR USER** *user ID*— **JOB=***jobname* **STEP=***stepname* **ID=***jobid* **AT** *system-id.*

Explanation: A notify request was unsuccessful; the decimal code indicates the cause of the failure.

Decimal
Code   **Explanation**

12   PSF logic error. No notify extension found.

System action: PSF continues processing the notify request.

User response: Inform your system programmer that this error occurred.

System programmer response: Follow the procedures described in *PSF for z/OS: Diagnosis* before consulting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Item 29.

APS071I   **NOTIFY ERROR** *decimal-code* **FOR USER** *user ID*— **JOB=***jobname* **STEP=***stepname* **ID=***jobid* **AT** *system-id***.**

Explanation: A notify request was unsuccessful; the decimal code indicates the cause of the failure.

Decimal
Code   **Explanation**

04   PSF logic error. Subsystem does not support this function.

08   Subsystem exists, but is not up. Restart the Job Entry Subsystem (JES).

12   PSF logic error. Subsystem does not exist.

16   Function not completed; disastrous error. Determine cause of error from dump.

20   PSF logic error. Logical error (incorrect subsystem option block [SSOB] format, incorrect length, or some other logical error).

System action: PSF continues processing the notify request.

User response: Inform your system programmer that this error occurred.

System programmer response: For codes "08" and "16", see the explanation for the code. For all other codes, follow the procedures described in *PSF for z/OS:*

Diagnosis before consulting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 29.

**APS072I   CONSULT YOUR SYSTEM
            PROGRAMMER FOR ASSISTANCE.**

Explanation: Resolving the error described by the preceding message requires the assistance of your system programmer.

System action: PSF continues processing the notify request.

User response: Consult your system programmer for assistance. Inform your system programmer that this error occurred.

System programmer response: See the error codes in the preceding message.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 3.

**APS073I   THE CHECKPOINT AREA FOR THE
            DATA SET THAT WAS TO RESTART
            FROM A CHECKPOINT DID NOT
            CONTAIN THE REQUIRED
            CONDITIONAL PROCESSING
            INFORMATION. THE DATA SET WAS
            RESTARTED FROM THE BEGINNING.**

Explanation: The conditional processing information that is used in printing this data set was too large to fit into the checkpoint record that PSF had previously written to JES. This can happen when the page definition specifies CONDITION commands by use of the WHEN CHANGE parameter, which causes large amounts of data to be tested. If too many of the WHEN CHANGE type of conditions are specified, the checkpoint record becomes too large to write to JES. PSF must then write the checkpoint record to JES without any of the conditional processing information.

Because this data set needs the conditional processing information in order to restart from a checkpoint, but the JES checkpoint record given back to PSF does not contain this information, PSF must restart this data set from the beginning. This allows the conditional processing information to be rebuilt, and the data set prints correctly.

System action: PSF issues this message to the operator console and the message data set, and continues processing from the beginning of the data set.

User response: Examine your output for duplicate pages.

System programmer response: No response is necessary.

Operator Response: If you know which page the printing should restart on, issue a forward space command.

Problem determination: None.

**APS074I   AN INTERRUPT MESSAGE PAGE
            WOULD HAVE BEEN GENERATED BUT
            IT HAS BEEN SUPPRESSED.**

Explanation: The interrupt message page that PSF inserts in your printed output was suppressed because the Printer Inventory or Exit 7 has requested that no interrupt message page be printed.

System action: Processing continues without the interrupt message page being printed.

User response: If you feel that this message has been issued incorrectly, ask your system programmer to check the target device, the Printer Inventory and Exit 7 for correctness.

System programmer response: Ensure that the target device is appropriate. For microfilm devices, interrupt message pages are suppressed regardless of what functions were requested in PSF Exit 7 or the Printer Inventory.

For non-microfilm devices, ensure that the Interrupt message page value is set correctly in the Printer Inventory or XTP7IPSU is set correctly by Exit 7.

Operator Response: No response is necessary.

Problem determination: Items 1, 3.

**APS075I   UNABLE TO ALLOCATE STORAGE
            FOR MESSAGE DATASET
            RE-DIRECTION.**

Explanation: Virtual storage could not be acquired above the line for all required message data set redirection control blocks.

System action: The user data set completed printing, but the associated message data set was lost. The data set was released as incomplete for future reprinting. The FSA printing the data set was stopped with abend reason code 0335.

User response: Inform your system programmer that this error occurred.

System programmer response: Increase the REGION parameter on the procedure used to start PSF.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 17, 19.

APS076I DYNAMIC ALLOCATION FUNCTION FOR THE SYSOUT MESSAGE DATASET WAS UNSUCCESSFUL—RETURN CODE *xxxx*, REASON CODE *xxxx*.

Explanation: An unsuccessful attempt was made to use an SVC 99 instruction to perform the dynamic allocation of the redirected message data set.

System action: The user data set completed printing, but the associated message data set was lost. The data set was released as incomplete for future reprinting. The FSA printing the data set was stopped with abend reason code 0335.

User response: Inform your system programmer that this error occurred.

System programmer response: Use the return code and reason code to determine the cause of the error and an appropriate response. For information about the SVC 99 return and reason codes, refer to *z/OS MVS Diagnosis: Tools and Service Aids*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS077I OPENING OF THE SYSOUT MESSAGE DATASET WAS UNSUCCESSFUL.

Explanation: An OPEN macro, which results in an SVC 19, was issued to open the redirected message data set for output. After returning from the OPEN macro, PSF discovered that the data control block (DCB) had not been opened.

System action: The user data set completed printing, but the associated message data set was lost. The data set was released as incomplete for future reprinting. The FSA printing the data set was stopped with abend reason code 0335.

User response: Inform your system programmer that this error occurred.

System programmer response: See the additional console messages associated with this error.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS078I CLOSING OF THE SYSOUT MESSAGE DATASET WAS UNSUCCESSFUL.

Explanation: A CLOSE macro, which results in an SVC 20, was issued to close the redirected message data set. After returning from the CLOSE macro, PSF discovered that the data control block (DCB) had not been closed.

System action: The user data set completed printing,

but the associated message data set was lost. The data set was released as incomplete for future reprinting. The FSA printing the data set was stopped with abend reason code 0335.

User response: Inform your system programmer that this error occurred.

System programmer response: See the additional console messages associated with this error.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS079I MESSAGE DATASET REDIRECTION WAS REQUESTED BUT ALL REQUIRED PREREQUISITES WERE NOT MET. THE REQUEST WAS SUPPRESSED.

Explanation: Message data set redirection was requested by specifying PIMSG=NO on the OUTPUT statement for the message data set in the writer procedure, but one of these occurred:

- The operating system does not support the functions required for message data set redirection.

or

- Message data set redirection was requested while using direct-printing mode.

System action: The request for message data redirection was ignored. Any error messages were printed with the associated user data set.

User response: No response is necessary.

System programmer response: Either correct the problem described by the Explanation section, or do not request message data set redirection (do not specify PIMSG on the message data set OUTPUT statement in the writer procedure or specify PIMSG=YES).

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 17, 27.

APS080I INHIBIT RECOVERY WAS IGNORED BECAUSE IT WAS NOT SPECIFIED FOR THE FIRST DATA SET OF THE JOB.

Explanation: XTP7IHIB was set to off for the first data set of the job, but PSF Exit 7 set it on for a subsequent step of the job. PSF must perform the same level of recovery for the entire job.

System action: Recovery is allowed for the entire job.

User response: Notify your system programmer.

System programmer response: Change PSF Exit 7 so that it sets XTP7IHIB the same way for each data set of a job.

Operator Response: No response is necessary.

Problem determination: Items 2, 3, 8.

APS081I   RECOVERY IS INHIBITED BECAUSE IT WAS SPECIFIED FOR THE FIRST DATA SET OF THE JOB.

Explanation: PSF Exit 7 set XTP7IHIB to on for the first data set of the job but not for a subsequent step of the job. PSF must perform the same level of recovery for the entire job.

System action: Recovery is inhibited for the entire job.

User response: Notify your system programmer.

System programmer response: Change PSF Exit 7 so that it sets XTP7IHIB the same way for each data set of a job.

Operator Response: No response is necessary.

Problem determination: Items 2, 3, 8.

APS082I   FSI GETREC FAILED. GLRFLGS1= *flags*.

Explanation: A get record request on the Functional Subsystem Interface (FSI) was rejected.

System action: PSF ends with system completion code 024 and an abend reason code 0130.

User response: Notify your system programmer.

System programmer response: Contact IBM service and supply the GLRFLGS1 indicated.

Operator Response: Notify your system programmer.

Problem determination: None.

APS083I   THE CHECKPOINT AREA FOR THE DATA SET THAT WAS TO RESTART FROM A CHECKPOINT DID NOT CONTAIN THE REQUIRED SHEET COLLECTION FINISHING INFORMATION AT THE COPY GROUP LEVEL. THE DATA SET WAS RESTARTED FROM THE BEGINNING.

Explanation: The information for the sheet collection finishing at the copy group level, which is used in printing this data set, was too large to fit into the checkpoint record that PSF had previously written to JES. This can happen when too many finishing operations are nested inside a copy group and the checkpoint record becomes too large to write to JES. PSF must then write the checkpoint record to JES without any of this finishing information.

Because this data set needs the sheet collection finishing information at the copy group level in order to restart from a checkpoint, but the JES checkpoint record

given back to PSF does not contain this information, PSF must restart this data set from the beginning. This lets the finishing information be rebuilt, and the data set prints correctly.

System action: PSF issues this message to the operator console and the message data set, and continues processing from the beginning of the data set.

User response: Examine your output for unfinished and duplicate pages.

System programmer response: No response is necessary.

Operator Response: If you know which page the printing should restart on, issue a forward space command.

Problem determination: None.

APS084I   THE SIXTH VALUE IN THE ''PARM='' FIELD OF THE ''EXEC'' JCL STATEMENT IS NOT VALID. IF MUST BE THE CHARACTERS ''UNICODE'' OR BE OMITTED. PSF HAS BEEN STARTED WITHOUT UNICODE SUPPORT.

Explanation: The sixth value in the PARM field of the EXEC statement must be UNICODE in order for PSF to be started with Unicode support. For the correct format of the EXEC statement, refer to *PSF for z/OS: Diagnosis*.

System action: PSF continues processing without Unicode support.

User response: No response is necessary.

System programmer response: Correct the PARM information in the JCL. For more information, refer to *PSF for z/OS: Diagnosis*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS095I   INSTALLATION EXIT 15 WILL NOT BE INVOKED.

Explanation: The initialization of the Download for z/OS exit routine failed because insufficient length was specified in the APSUCOM table, the APSUCOM module could not be located, or a BLDL macro failed. Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action: Processing continues without the installation exit.

User response: No response is necessary.

System programmer response: Evaluate any changes made to the APSUCOM module (static table),

to the exit routine, or to the methods used to establish the tables or routines in the system. Other messages might contain BLDL macro return and reason codes.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS096I   THE INVOCATION OF CEEPIPI TO INITIALIZE THE C ENVIRONMENT FAILED WITH RETURN CODE (*return code***).**

Explanation: A nonzero return code was received from the invocation of CEEPIPI to initialize for subroutines. Return codes associated with this message are:

**Return
Code   Explanation**

04 The function code is not valid.

08 Some of the addresses in the table were not resolved. This can occur if a LOAD failure was encountered, a routine within the table was not generated by a Language Environment-conforming HLL, or a C or PL/I routine within the table was not retrievable.

12 Storage for the preinitialization environment could not be obtained.

16 CEEPIPI was called from an active environment.

For more information on this invocation of CEEPIPI and its return codes, refer to *z/OS Language Environment Programming Guide*.

System action: PSF processing ends abnormally with an abend 024 and abend reason code 0A57 or 0A5D.

User response: No response is necessary.

System programmer response: If the problem cannot be diagnosed from the return code, contact the IBM Support Center.

Operator Response: Inform your system programmer that is error occurred.

Problem determination: Items 1, 17, 19, 27.

APS097I   THE INVOCATION OF CEEPIPI TO ADD A C EXIT FAILED WITH RETURN CODE (*return code***).**

Explanation: A nonzero return code was received from the invocation of CEEPIPI to add an entry. Return codes associated with this message are:

**Return
Code   Explanation**

04 The function code is not valid.

08 CEEPIPI was called from a Language Environment-conforming routine.

12 The routine did not contain a common run-time environment PPA style prologue. The PIPI table was not updated, and the *routine_entry* is set to the address of the loaded routine. This might have occurred for one of these reasons:
  - An installation exit in assembler has been given a C exit name and link-edited like an installation exit in C.
  - An installation exit in assembler has been named with a C exit name and has been link-edited like an installation exit in assembler.
  - The main function name in the C exit is not the same as the load module name.

16 The *token* is not valid.

20 The *routine_name* contains only blanks and the *routine_entry* was zero. The PIPI table was not updated.

24 The *routine_name* was not found or there was a load failure. The PIPI table was not updated.

28 The PIPI table is full. No routine was added to the table, nor was any routine loaded by Language Environment®.

For more information on this invocation of CEEPIPI and its return codes, refer to *z/OS Language Environment Programming Guide*.

System action: PSF processing stops abnormally with an abend 024 and abend reason code 0A58 or 0A5E.

User response: No response is necessary.

System programmer response: Make sure that any assembler installation exits are named correctly and are link-edited as assembler exits. Make sure that the main function name of any C installation exit is the same as the load module name. If the exits are correct and the problem cannot be diagnosed from the return code, contact the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 19, 27.

APS098I   PSF INSTALLATION EXIT *exit routine* WILL NOT BE INVOKED BECAUSE THE C VERSION EXISTS AND WILL BE USED INSTEAD.

Explanation: PSF is trying to load an assembler installation exit but its C version has already been loaded.

System action: Processing continues without the assembler version of the installation exit.

User response: No response is necessary.

System programmer response: You have both a C version and an assembler version of the same exit. If you would like to use the assembler version, delete the C version of the exit.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS099I   PSF INSTALLATION EXITS WRITTEN IN C ARE NOT SUPPORTED.

Explanation: An installation exit in C has been found, but the operating system is not OS/390® V1R3 or higher, z/OS, or z/OS.e. Earlier versions of OS/390 do not support installation exits in C.

System action: Processing continues without the installation exits that are written in C. All assembler exits are used.

User response: No response is necessary.

System programmer response: If you wish to use installation exits written in C, install the current version of z/OS.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS100I   SYSTEM ACTION TAKEN: PRINTING OF THE CURRENT PAGE (*current page*) WAS STOPPED BECAUSE OF THE ERRORS LISTED. IF PSF WAS UNABLE TO PRINT THIS PAGE, SUBSEQUENT REPOSITIONING MAY BE INACCURATE.

Explanation: An error was encountered that prevents further processing of the current page. Other error messages issued by PSF describe the precise error condition and give additional information about the processing environment in which the error occurred.

System action: Printing of the current page ends. If the error occurred on the front side of a duplex sheet, and the front side was skipped, data belonging on the back side of the page might be printed on the front of the sheet.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure.

Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 17.

APS101I   SYSTEM ACTION TAKEN: THE ERRORS LISTED PREVENTED PRINTING OF THE *document type* FOR JOB *print request*, STEP *step*, OUTGROUP *outgroup*.

Explanation: An error that was encountered prevents further printing of the current document that is part of the *outgroup* and *step* for the print request identified in this message.

If a series of asterisks (********) prints in any of these identifying fields, the system could not provide the information for that field.

Previous error messages describe the precise error condition and give additional information about the processing environment in which the error occurred.

If *document type* is DATA SET, this message is the last in a series of messages describing the errors that stopped the printing of a user document. If *document type* is MESSAGES, this message is the last in a series at the operator's console. MESSAGES indicates that errors prevented the system from printing the error messages that were generated while the user document was being processed. If *document type* is JOB HEADER, DATA SET HEADER, or JOB TRAILER, this console message indicates that errors occurred during deferred printing of the indicated separator pages.

System action: Processing of the indicated document stops. PSF attempts to print any data accumulated for the current page. If the error is in a job header or a data set header, PSF tries to print the associated user document.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 17.

APS102I   AN END OF FILE WAS FOUND BEFORE THE LOGICAL END OF A RESOURCE OR THE RESOURCE CONTAINED NO DATA. THE MEMBER NAME OF THE RESOURCE IS *member name*.

Explanation: One of these occurs:

- The end of file for a resource was found before the End-type structured field, with the result that the resource definition is incomplete.

- The resource existed as a member of a partitioned data set, but no data was found in the member.

System action: PSF stops processing the current page, and prints any data accumulated for the current page.

PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the resource, correct the error and resubmit the print request. If you created the empty partitioned member for the resource, correct the error by creating a resource that contains the structured fields for the resource type you want, and resubmit the print request. For more information about the structured fields, refer to *Mixed Object Document Content Architecture Reference*.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 15c, 17, 19.

APS103I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: *structured field name1* **STRUCTURED FIELD WAS FOUND WHERE** *structured field name2* **STRUCTURED FIELD WAS EXPECTED.**

Explanation: *Structured field name1* is incorrect at the present point in the input data stream or resource. The structured field type expected at this point is *structured field name2*. Either the required structured field is missing or out of sequence, or a line-data record is in the wrong place.

Subsequent error messages give additional information about the processing environment in which the error occurred.

System action: PSF stops processing the current page, and prints any data accumulated for the current page.

PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the

end of the current page, PSF stops printing the data set. If the error is a result of incorrect structured fields within an inline page definition or form definition, PSF stops printing the data set.

PSF issues a message that identifies the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information on the correct format of the referenced structured field. If the structured fields are in the correct order, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS104I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: *structured field* **STRUCTURED FIELD IS NOT ALLOWED OR FORMS AN INCORRECT SEQUENCE.**

Explanation: The structured field identified in this message either is out of sequence or is not valid in an object. The record might be line data. If inline resources are used with data set header pages, multiple resource groups might be present.

System action: PSF stops processing the current page, and prints any data accumulated for the current page.

PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If the error is a result of incorrect structured fields within an inline resource, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for

the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information on the correct format of the referenced structured field. If the structured fields are in the correct order, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS105I   **THE ERROR REPORTED ABOVE OCCURRED IN LOGICAL RECORD NUMBER** *record number***, WHOSE SEQUENCE NUMBER IS** *sequence number***.**

Explanation: This message is given in addition to the message that describes the error. It identifies the specific incorrect input record. The object (if any) that contains the incorrect record is identified in either message APS108I or message APS109I, which is given after this message.

The record number specified is relative to the user data stream and is different for multiple transmissions of the data set. However, the record number might be inaccurate if the data set is using a page definition that performs conditional processing.

The sequence number might print as NOT AVAILABLE in the message. For example, a line-data record does not have a sequence number.

System action: The printing disposition depends upon the error described in the accompanying messages.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure.

Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 17.

APS106I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: NAME** '*token name*' **IN** *Begin-type structured field* **DOES NOT MATCH NAME** '*token name*' **IN** *End-type structured field***.**

Explanation: The Token Name parameters in the Begin-type and End-type structured fields identified in this message do not correlate. The structured fields might be out of sequence in the input data stream.

When token names are specified, the Token Name parameters in the associated Begin-type and End-type structured fields must correlate.

System action: Processing continues, and PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS107I   **THE ERROR REPORTED ABOVE OCCURRED ON PAGE** *page number* **OF TRANSMISSION** *transmission number***.**

Explanation: This message is issued in addition to a message that describes an error that occurred during the processing of a page or data relating to a page.

This message identifies the page containing the error by indicating the number of that page in the transmission. The number is not taken from any data that might be on the input page.

System action: The printing disposition depends on the error described in the accompanying messages.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 17.

APS108I **THE ERROR REPORTED ABOVE WAS DETECTED WITHIN OBJECT TYPE** *object type* **WITH TOKEN NAME** *token name***.**

Explanation: This message is issued in addition to the message that describes the error. The objects that were being processed are listed, to identify the location of the error in the input data stream or in a resource.

System action: The printing disposition depends on the error described in the accompanying messages.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 15, 17.

APS109I **THE ERROR REPORTED ABOVE WAS CAUSED BY THE RESOURCE** *resource name* **IN AN EXTERNAL LIBRARY OR AN INLINE RESOURCE.**

Explanation: This message is issued in addition to the message that describes the error. The object identified in the accompanying message was either a resource being processed from an external library or an inline resource. Error message, APS108I, identified the member with a resource type. The combined information from these two messages can be used to identify the library defined to PSF in the Printer Inventory or on the PRINTDEV statement if appropriate. In the event of an inline form definition or page

definition, the resource is not a member of an external library, but it is included at the beginning of the user's data set.

System action: The printing disposition depends on the error described in the accompanying messages.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 15, 17.

APS110I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE LENGTH SPECIFIED IN THE SELF-DEFINING PARAMETER OR TRIPLET** *identifier* **OF THE** *structured field* **STRUCTURED FIELD IS INCORRECT.**

Explanation: Insufficient data was present in the structured field for the length given in the self-defining parameter or triplet. If the self-defining parameter or triplet ID is 0, the length of the self-defining parameter or triplet might have been 0 or 1, which means that no ID was available for use in this message.

System action: If the error occurred in a structured field in a page or resource, PSF attempts to find the end of the page or resource. If PSF can find the end of the page, it prints any data accumulated for the current page. If PSF cannot find the end of the page, it stops processing the data set. If the error occurred in a form definition, a page definition, or a non-presentation object container resource (for example, COMSETUP), the form definition, page definition, or non-presentation object container resource is not used, and one of these occurs:

- PSF is not started for any of these:
  – The default form definition
  – A form definition specified for printing messages or separator pages
  – A page definition specified for printing messages or separator pages
- PSF cannot begin printing the data set for a form definition or non-presentation object container resource (or page definition if printing line data) specified on a user's JCL OUTPUT statement; PSF tries to print the next data set.

PSF issues a message identifying the position of the structured field in the data stream or resource. PSF

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issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS111I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE REQUESTED CHARACTER ROTATION IS NOT AVAILABLE IN THE CURRENT FONT.

Explanation: The Font Orientation (FNO) structured field does not include a repeating group for the requested character rotation. The FNO structured field is contained in the font character set. The font, its character rotation, and its print direction were specified in the Map Coded font (MCF) structured field in the MO:DCA data, overlay, or page definition. If the font being used was specified by use of a JCL CHARS or UCS keyword, then PSF constructed the MCF structured field.

System action: PSF cannot print the current page, but it attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User response: Ensure that the correct font was specified. If it was, and if you used a program to create the MCF structured field, consult your system programmer. If the correct font was specified, and if while creating the MCF structured field you used bytes 28 and 29 to identify the character rotation for the font, ensure that the values in these bytes identify an available character rotation in the requested font.

If the correct font was specified, and if you created the

structured fields for the font, ensure that an FNO repeating group is available for the desired character rotation, and resubmit the print request.

If the correct font was specified, and if you used a program to create the structured fields for the font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS112I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: RECORD CONTAINS NO DATA, EVEN THOUGH AT LEAST A CONTROL CHARACTER IS EXPECTED.

Explanation: PSF read an input record without a control character following the record descriptor word (RDW). A minimum of 1 byte of control-character data is needed to make the record valid.

System action: PSF prints any data accumulated for the page, and then stops printing the current data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. For more information about the construction and placement of RDWs, refer to *z/OS DFSMS Using Data Sets*.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS113I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: STRUCTURED FIELD LENGTH IS LESS THAN THE INTRODUCER LENGTH.

Explanation: A structured field must have at least 8 bytes of data, the minimum length necessary for a structured field introducer. The Extension Indicator flag in the structured field introducer indicates whether the minimum length of the structured field can be greater than 8 bytes.

System action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS114I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: RDW LENGTH DOES NOT AGREE WITH LENGTH IN STRUCTURED FIELD INTRODUCER.

Explanation: Every structured field is preceded by a

record descriptor word (RDW) that specifies the length of that record, including the RDW. The record length in the RDW for the current record is less than the sum of the Length parameter in the structured field introducer and the number of bytes for both the RDW (4 bytes) and the control character (1 byte).

System action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or resource, ensure that the RDW for the incorrect structured field contains a valid record length, and resubmit the print request. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS115I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: STRUCTURED FIELD INTRODUCER FLAG BITS ARE NOT ACCEPTABLE.

Explanation: Bits 1–3 or 5–7 in the structured field introducer Flag Byte parameter are not all zeroes.

System action: PSF stops processing the current page and prints any data accumulated for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input record or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object*

Document Content Architecture Reference for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS116I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: PADDING LENGTH OR EXTENSION LENGTH IS INCORRECT FOR STRUCTURED FIELD.

Explanation: The length of padding, extension, or both specified in the Length or Extension parameter in the structured field introducer indicates more data than was found in the structured field.

System action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input record or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or resource, ensure that the Extension Indicator flag is set correctly and that the Length parameter in the structured field introducer specifies the actual length of padding for the incorrectstructured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field introducer. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the

print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS117I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: LENGTH INDICATED IN THE STRUCTURED FIELD INTRODUCER IS INCORRECT FOR *structured field name* **STRUCTURED FIELD.**

Explanation: The length indicated by the structured field introducer specifies an incorrect number of bytes for the structured field identified in this message. This error is caused by one of these:

- The Extension or Padding Indicator flags in the structured field introducer are set incorrectly.
- One or more of the parameters in the structured field contain an incorrect number of bytes.

In some cases the length of a structured field is specified in a parameter that is in another structured field. For example, the length of Fixed Data Text (FDX) structured fields is specified in the Size parameter of the Fixed Data Size (FDS) structured field.

System action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or resource, ensure that the Length parameter in the structured field introducer specifies a valid length for the structured field. Also ensure that the number of bytes in the structured field parameter matches the length specified in the structured field introducer. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field introducer.

If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS118I **UNSUPPORTED STRUCTURED FIELD** *structured field code* **WAS IGNORED, AND, IF IT BEGAN AN OBJECT, THE OBJECT WAS IGNORED. THE PRINTED OUTPUT MAY BE ACCEPTABLE.**

Explanation: The Identifier parameter in the structured field introducer for the incorrect structured field specified a structured field code that was not recognized as a valid structured field code.

System action: If the structured field began an object, the object was ignored. Otherwise, only the structured field was ignored, and processing of the rest of the data set continues as usual.

PSF issues a message identifying the position of the structured field in the input data stream or containing resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If the printed output was unacceptable and you created the structured fields for the print data set or resource, give the incorrect structured field a code that is valid for its structured field type. Refer to *Mixed Object Document Content Architecture Reference* for a list of valid structured field types.

If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured field for the print data set or resource, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS120I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID:** *structured field name1* **STRUCTURED FIELD CONTAINS AN INCORRECT VALUE FOR THE SIZE OF THE** *structured field name2* **REPEATING GROUP.**

Explanation: *Structured field name1* specifies the length of each repeating group found in *structured field name2*. Either the value specified in *structured field name1* for the size of the repeating group is too small, or the actual length of the repeating-group data is not a multiple of the size specified.

System action: PSF stops processing the current page and prints any data accumulated for the current page. PSF tries to find the end of the current page and resume printing on the next page. If PSF cannot find the end of the page, it stops printing the data set. If this error occurred in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

PSF issues a message identifying the position of the structured field in the data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS121I **FORMDEF KEYWORD MUST BE SPECIFIED ON THE JCL OUTPUT STATEMENT IN ORDER TO PRINT THIS DATA SET. DETERMINE THE PERMISSIBLE VALUES USED IN YOUR INSTALLATION FOR THE FORMDEF KEYWORD.**

Explanation: This data set cannot be printed without an active form definition. No FORMDEF keyword was provided on the JCL OUTPUT statement for this job, and no default form definition was defined in the Printer Inventory or the PSF startup procedure.

System action: PSF cannot print the current data set. If unable to find the end of the page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: To specify a form definition, do one of these:

- Code the FORMDEF keyword on the OUTPUT JCL statement. For information on how to code the OUTPUT statement, refer to *PSF for z/OS: User's Guide*.
- Request that your system programmer code a default form definition name in the PSF initialization procedure.

System programmer response: Specify a default form definition for the FSA in the Printer Inventory or on the JCL PRINTDEV statement in the procedure used to start PSF. For information on how to specify a default form definition for the FSA in the Printer Inventory on the PRINTDEV statement, refer to *PSF for z/OS: Customization*.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 19.

APS122I **DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: THE PATTERN-TECHNOLOGY VALUE IN THE FNC STRUCTURED FIELD IS INCORRECT.**

Explanation: The pattern-technology value in Byte 1 of the Font Control (FNC) structured field is not valid. The FNC structured field is contained in the font character set.

System action: PSF cannot print the current page, but it attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the

processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS123I **GROUP LEVEL MEDIUM FINISHING REQUESTED BUT THE PRINTER DOES NOT SUPPORT GROUP LEVEL MEDIUM FINISHING. THE PROCESSING OF THE DATA SET CONTINUES WITHOUT GROUP LEVEL MEDIUM FINISHING.**

Explanation: A Document Environment Group in the current form definition contains a Medium Finishing Control (MFC) structured field but the printer does not support group level MFCs.

System action: The MFC is ignored and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS125I   DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: THE BASELINE EXTENT VALUE IN THE FNO STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The Baseline Extent parameter in the Font Orientation (FNO) structured field does not contain a value in the correct range. The FNO structured field is contained in the font character set.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS126I   DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: THE COMPRESSION ALGORITHM PARAMETER IN THE FNC STRUCTURED FIELD CONTAINS AN UNACCEPTABLE VALUE.

Explanation: The Compression Algorithm Identifier was specified incorrectly in the Font Control (FNC)

structured field. The FNC structured field is in the font character set.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS127I   MISMATCH BETWEEN CODE PAGE AND FONT CHARACTER SET RESOURCES: CPC STRUCTURED FIELD SPECIFIED A DEFAULT GRAPHIC CHARACTER '*default graphic character name*' WHICH WAS NOT FOUND IN THE FNI STRUCTURED FIELD.

Explanation: The value in the Default Graphic Character Name parameter in the Code Page Control (CPC) structured field does not match any of the values of the Graphic Character Identifier parameters in the repeating groups of the associated Font Index (FNI) structured field. The CPC structured field is in the code page. The FNI structured field is contained in the font character set.

The repeating groups in the FNI structured field should be sorted in ascending numeric order. This error might be caused by incorrect sorting of the repeating groups.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to

find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS128I   **SHEET LEVEL MEDIUM FINISHING REQUESTED BUT THE PRINTER DOES NOT SUPPORT SHEET LEVEL MEDIUM FINISHING. THE PROCESSING OF THE DATA SET CONTINUES WITHOUT SHEET LEVEL MEDIUM FINISHING.**

Explanation: A medium map in the current form definition contains a Medium Finishing Control (MFC) structured field but the printer does not support sheet level MFCs.

System action: The MFC is ignored and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF*

for z/OS: Diagnosis for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS129I   **DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: THE FLAG BYTE VALUE IN THE FNC STRUCTURED FIELD IS NOT ACCEPTABLE.**

Explanation: The Flag byte in the Font Control (FNC) structured field contains incorrect data. For the 3800 printer, the incorrect value could be in the Kerning flag or in the Uniform Character Box Size flag. For the other printers, the incorrect value is in the Uniform Character Box Size flag. The FNC structured field is contained in the font character set.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS130I   DATA IN AN INPUT RECORD IS NOT VALID: *structured field name* **STRUCTURED FIELD IS NOT ACCEPTABLE AT THE START OF A DATA STREAM.**

Explanation: The structured field type identified in this message is not valid at the start of the data stream. Subsequent error messages give additional information about the processing environment in which the error occurred.

System action: PSF cannot print the current data set.

User response: If you created the structured fields for the print data set, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 17, 19.

APS131I   THE SEPARATOR PAGE EXIT GENERATED AN ERROR: *structured field type* **IS NOT ACCEPTABLE AT THE START OF** *separator page type* **SEPARATOR PAGE. PLEASE INFORM YOUR SYSTEM PROGRAMMER.**

Explanation: The first structured field of the separator-page type identified in this message is neither a valid structured field type nor a line-data record. Line data is valid in this position. Any of the structured field types that can begin a document is also valid.

System action: The page is not printed.

User response: Inform your system programmer that this error occurred.

System programmer response: Refer to *Mixed Object Document Content Architecture Reference* to construct one of the structured fields that can begin a document and to determine the correct sequence of structured fields within a data set or resource.

Correct the process used to create the separator page

that contains the error, and replace the exit before resubmitting print requests.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 2, 3, 17, 19.

APS132I   DATA IN AN INPUT RECORD IS NOT VALID: *structured field name* **STRUCTURED FIELD FOLLOWING BTM OR BDH STRUCTURED FIELD IS NOT ACCEPTABLE.**

Explanation: The structured field that begins a transmission is neither an acceptable structured field type nor a line-data record. Subsequent error messages give additional information about the processing environment in which the error occurred. If inline resources are used, multiple resource groups might be present.

System action: PSF stops printing the current data set.

User response: If you created the structured fields for the print data set, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 17, 19.

APS135I   DATA IN A FORMDEF RESOURCE IS NOT VALID: DUPLICATE OVERLAY LOCAL IDENTIFIER WAS FOUND IN THE *structured field* **STRUCTURED FIELD.**

Explanation: The same local identifier was found assigned to more than one Overlay Local Identifier parameter in the Map Medium Overlay (MMO) or Map Page Overlay (MPO) structured field repeating groups. The MMO structured field is in the form definition. The MPO is in the page definition or the print data set.

System action: If the error is in a resource, the resource is not used, and one of these occurs:

- If the error is in default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in the default page definition, or a page definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.
- If the error is in a page definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

If the error is in the print data set, PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS138I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: OVERLAY LOCAL IDENTIFIER VALUE IS NOT ACCEPTABLE IN THE *structured field* **STRUCTURED FIELD.**

Explanation: An incorrect Overlay Local Identifier was encountered in one of the structured field repeating groups: Map Medium Overlay (MMO), Map Page Overlay (MPO), or Medium Modification Control (MMC). The MMO and MMC structured fields are in the form

definition. The MPO is in the page definition or the print data set.

System action: If the error is in a resource, the resource is not used, and one of these occurs:
- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

If the error is in the print data set, PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS139I   DATA IN A FORMDEF RESOURCE IS NOT VALID: SUPPRESSION LOCAL IDENTIFIER VALUE IS NOT ACCEPTABLE IN THE MSU STRUCTURED FIELD.

Explanation: The Suppression Local Identifier parameter in the Map Suppression (MSU) structured field is not valid. The MSU structured field is in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS140I	DATA IN A FORMDEF RESOURCE IS NOT VALID: TWO *structured fields* STRUCTURED FIELDS ARE DEFINED WITH THE SAME IDENTIFIER, *identifier*.

Explanation: Two Medium Modification Control (MMC) or two Page Modification Control (PMC) structured fields in a single Form Environment Group have the same value in their Identifier parameters. The MMC and PMC structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS141I	DATA IN A FORMDEF RESOURCE IS NOT VALID: MEDIUM SUPPRESSION TOKEN NAME IS REPEATED IN MSU STRUCTURED FIELD.

Explanation: The Token Name parameters in two repeating groups in a Map Suppression (MSU) structured field have the same value. The MSU structured field is in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the

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form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS143I	DATA IN A FORMDEF RESOURCE IS NOT VALID: COPY SPECIFICATIONS IN THE MCC STRUCTURED FIELD ARE NOT ACCEPTABLE.

Explanation: Either the Starting and Stopping Copy Numbers contain a gap or an overlap, or the maximum number of copies for one set of modifications has been exceeded. The Copy Number parameters are specified in the Medium Copy Count (MCC) structured field. The MCC structured field is contained in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, ensure that the Starting Copy Number and the Stopping Copy Number parameters in a repeating group in an MCC structured field have valid values that correlate. Also, verify that fewer than 255 copies have been requested. If 255 or more copies with the same modifications are needed, define two or more MCC structured fields. For more information on the MCC structured field, refer to *Mixed Object Document Content Architecture Reference*. If the MCC has no errors, the error might be a PSF logic error.

If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS145I	DATA IN A FORMDEF RESOURCE IS NOT VALID: THE FORMS-FLASH VALUE IN MMC STRUCTURED FIELD, ID *identifier*, IS NOT ACCEPTABLE.

Explanation: The Medium Modification Control (MMC) structured field contains an incorrect value for the repeating group that contains forms-flash modification. The MMC structured field is contained in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS146I **DATA IN A FORMDEF RESOURCE IS NOT VALID: MORE THAN 8 OVERLAYS ARE SPECIFIED IN MMC STRUCTURED FIELD, ID** *identifier*.

Explanation: In a Medium Modification Control (MMC) structured field, the maximum number of overlays allowed in one set of modifications has been exceeded. The MMC structured field is contained in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS147I **DATA IN A FORMDEF RESOURCE IS NOT VALID: MORE THAN 8 SUPPRESSIONS ARE SPECIFIED IN MMC STRUCTURED FIELD, ID** *identifier*.

Explanation: In a Medium Modification Control (MMC) structured field, the maximum number of suppressions allowed in one set of modifications has been exceeded. The MMC structured field is contained in the form definition.

System action: The form definition containing the

error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS151I **THE PRINTABLE AREA LENGTH OF** *inches* **INCHES IS TOO SMALL TO PRINT MESSAGES. PSF HAS USED THE SMALLEST LENGTH FROM THE LOGICAL PAGE** *inches* **OR THE PHYSICAL PRINTABLE AREA** *inches* **OR THE USER PRINTABLE AREA** *inches*. **PRINTING OF MESSAGES IS TERMINATED.**

Explanation: A check was made to determine whether the message would fit in the printable area when printed on the paper currently in the printer. It was determined that there was not enough space for even one message line. The page length specified is too small.

System action: The message data set or interrupt message page is not printed.

User response: If the FORMLEN keyword has been specified in the user's OUTPUT JCL statement and this value is too small, increase the FORMLEN value and resubmit the job. The FORMLEN value is used for both the message data set and the interrupt message page.

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See the *PSF for z/OS: User's Guide* for details on the FORMLEN keyword. If this does not fix the problem, inform your system programmer.

System programmer response: If messages are to be printed, select a form, a logical page size, and a font size that allows messages to fit on the page. The form definition or page definition selected to process messages might be incorrect, or the font selected might be too large for the page size specified in the form definition or the page definition. In addition, the physical printable area length (form length) as returned in the XOH Obtain Printer Characteristics reply might be too small.

PSF uses the smallest of the following values to determine the printable area:

- The User Printable Area length plus its vertical offset
- The physical printable area length
- The current logical page length plus its vertical offset

The preceding printable area lengths are further reduced by any vertical offset from the medium origin (specified in the form definition) and by an additional .36 inches for all printers except the 3800. On the 3800, the lengths are reduced by any vertical offset from the medium origin and by an additional .67 inches.

To correct the printable area length, do these:

1. Use the smallest length as specified in the message and:
   - If the logical page length is too small, correct the length in the page definition for the message data set. Refer to *Page Printer Formatting Aid: User's Guide* for assistance.
   - If the physical page length (forms length) is too small and the forms length might be configured via the printer's operator panel, perform the action specified in the Operator Response.
   - If the User Printable Area (UPA) is too small, see the *PSF for z/OS: Security Guide* for assistance.

     Note: Note: All values that are too small are affected by the offset from the medium origin as specified in the form definition for the message data set. Check this value to ensure the offset is not too large. See *Page Printer Formatting Aid: User's Guide* for assistance.

2. See the User Response section if it can be determined that the job submitter has specified the FOMLEN keyword and the FORMLEN value is too small.

3. If the specified page length is not too small, it could be because PSF calculated an incorrect maximum page length.

Operator Response: If the physical printable area length (forms length) might be configured by the operator and it has been determined that this is the

problem, increase the printable area length (forms length) and resubmit the job. See the printer hardware manual for details on configuring forms length. Otherwise, inform your system programmer that this error has occurred.

Problem determination: Items 1, 17, 19.

APS152I   DATA IN A FORMDEF RESOURCE IS NOT VALID: MMC STRUCTURED FIELD WAS NOT FOUND TO COMPARE WITH IDENTIFIER *identifier value* **IN MCC STRUCTURED FIELD.**

Explanation: The Medium Modification Control Identifier parameter in the Medium Copy Count (MCC) structured field contains a value that did not match the Medium Modification Control Identifier parameter in any Medium Modification Control (MMC) structured field in the Form Environment Group. The MCC and MMC structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MCC or MMC structured field. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MCC and MMC have no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS154I   DATA IN A FORMDEF RESOURCE IS NOT VALID: OVERLAY LOCAL IDENTIFIER IN MMC STRUCTURED FIELD, ID *identifier***, WAS NOT FOUND IN MMO STRUCTURED FIELD.**

Explanation: The overlay modification in the Medium Modification Control (MMC) structured field was not present in the Map Medium Overlay (MMO). The MMC and MMO structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS155I   DATA IN A FORMDEF RESOURCE IS NOT VALID: TOO MANY COPY CONTROLS WERE SPECIFIED FOR THE CURRENT FORM ENVIRONMENT GROUP.

Explanation: For a given physical page, up to 256 bytes of data can be specified for the printer command that describes the copies and modifications to be made. The current Form Environment Group causes the data for the command to exceed 256 bytes. PSF builds the printer command from data in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

User response: If you created the structured fields for the form definition, either reduce the number of copy groups in the Medium Copy Count (MCC) structured field or reduce the number of modifications specified in the Medium Modification Control (MMC) structured field. Otherwise, split these functions between two or more Form Environment Groups in two or more medium maps. Then include in your input two or more copies of the same page which are identical except that for each of them you select an appropriate code page by use of an Invoke Medium Map (IMM) structured field. For more information about the MMC and MMO structured fields, refer to *Mixed Object Document Content Architecture Reference*.

If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS156I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: NULL NAME IS NOT ACCEPTABLE IN *structured field name* **STRUCTURED FIELD.**

Explanation: Every Begin-type and End-type structured field can include an 8-byte token name. A null token name is not allowed for the listed structured field.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object*

Document Content Architecture Reference for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS157I   MISMATCH BETWEEN PRINT DATA SET AND FORMDEF RESOURCE: MEDIUM MAP '*medium map***' SPECIFIED IN IMM STRUCTURED FIELD WAS NOT FOUND IN FORMDEF '***form definition name***.'**

Explanation: The Token Name parameter in the Invoke Medium Map (IMM) structured field specifies the token name used to find a medium map in the form definition. This parameter must match the Token Name parameter specified in bytes 0–7 in one of the Begin Medium Map (BMM) structured fields in the current form definition. The IMM structured field is in the print data set.

System action: PSF stops processing the current data set.

User response: Ensure that the correct form definition was specified. If it was, and if you added the Invoke Medium Map structured field to the print data set, change the Token Name in the IMM structured field and resubmit the print request. For more information about the BMM and IMM structured fields, refer to *Mixed Object Document Content Architecture Reference*. If the correct form definition was specified, and if you used a program to embed the IMM structured field in the print data set, verify that the copy group name that you gave the program is valid for the form definition you have specified.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS158I   PAGEDEF KEYWORD MUST BE SPECIFIED IN ORDER TO PRINT THIS DATA SET. DETERMINE THE PERMISSIBLE VALUES USED IN YOUR INSTALLATION FOR THE PAGEDEF KEYWORD.

Explanation: The current data set contains line data, XML data, or structured fields that do not form a MO:DCA page. This kind of data set cannot be printed without an active page definition. No PAGEDEF keyword was provided on the JCL OUTPUT statements for this job, and no default page definition was defined in the PSF initialization procedure.

This error can also occur if MO:DCA data in the print data set contains a record without the required X'5A' control character preceding the structured-field introducer. The missing control character makes the record appear to be line data. A page definition is necessary to process line data. Therefore, PSF detects an error.

System action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you intended to print line data or XML data, do one of these to specify a page definition:

- Code the PAGEDEF parameter on the JCL OUTPUT statement. For information about how to code the OUTPUT statement, refer to *PSF for z/OS: User's Guide*.
- Code the FCB parameter on the JCL DD statement.
- Request that your system programmer code a default page definition name in the PSF initialization procedure.

If you did not intend to print line data or XML data, and you used a program to create the structured fields for the print data set, consult your system programmer.

System programmer response: If the problem is with either a separator page or a message, modify the JCL OUTPUT statement for the separator or message data set.

Specify a default page definition in the Printer Inventory or on the JCL PRINTDEV statement in the procedure used to start PSF. For information on how to specify the a default page definition in Printer Inventory on the PRINTDEV statement, refer to *PSF for z/OS: Customization*.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure.

Inform your system programmer.

Problem determination: Items 1, 2, 17, 19.

**APS159I   THE END OF THE DATA STREAM WAS
             ENCOUNTERED BEFORE THE
             LOGICAL END OF AN OBJECT WITHIN
             THE DATA STREAM.**

Explanation: The object that PSF was processing
began with a Begin-type structured field, but the input
data stream ended before a corresponding End-type
structured field was found. This message can also occur
if the system operator prematurely interrupts or ends a
print request by issuing an INTERRUPT, RESTART, or
CANCEL Job Entry Subsystem (JES) command.

System action: PSF stops printing the current data
set, and prints any data accumulated for the current
page. PSF issues additional messages identifying the
processing environment in which the error occurred.

User response: If you created the structured fields for
the print data set, correct the error and resubmit the
print request. Refer to *Mixed Object Document Content
Architecture Reference* for more information about the
structured field. If the structured field has no error, the
error might be a PSF logic error. If you used a program
to create the structured fields for the print data set,
contact your system programmer.

System programmer response: If an IBM licensed
program was used to create the structured fields for the
print data set or the resource with the error, verify that
the input to that program was valid. If the input was
valid, refer to *PSF for z/OS: Diagnosis* for assistance in
determining the source of the problem.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page, for
the message data set, or as the default resource for
user print data sets in the PSF startup procedure.
Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 17, 19.

**APS162I   MISMATCH BETWEEN PRINT DATA
             SET AND PAGEDEF RESOURCE: DATA
             MAP '*data map*' SPECIFIED IN IDM
             STRUCTURED FIELD WAS NOT
             FOUND IN PAGEDEF '*page definition*'.**

Explanation: The Token Name parameter in the
Invoke Data Map (IDM) structured field specifies the
token name used to find a data map in the page
definition. The name must match the value specified in
the Token Name parameter in the Begin Data Map
(BDM) structured field in the current page definition. The
IDM structured field is in the print data set.

System action: PSF stops processing the current
page and issues additional messages identifying the
processing environment in which the error occurred.

User response: Ensure that the correct page
definition was specified. If it was, and if you added the
Invoke Data Map structured field to the print data set,
change the Token Name in the IDM structured field and
resubmit the print request. For more information about
the BDM and IDM structured fields, refer to *Advanced
Function Presentation: Programming Guide and Line
Data Reference*. If the correct page definition was
specified, and if you used a program to embed the IDM
structured field in the print data set, verify that the data
map name you supplied to the program is valid for the
page definition you have specified.

System programmer response: No response is
necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

**APS163I   DATA IN AN INPUT RECORD OR
             RESOURCE IS NOT VALID: THE
             SCALE FACTOR VALUE IN THE IOC
             STRUCTURED FIELD IS NOT
             ACCEPTABLE.**

Explanation: The Image Block Scale Factor
parameter in the Image Output Control (IOC) structured
field is not valid. The image block or image cell might
be contained in an overlay, a page segment, or a
MO:DCA document. It might also be embedded in a
data set containing line data, using a Begin Image (BIM)
structured field.

System action: PSF stops processing the current
page, and prints any data accumulated for the current
page. PSF attempts to find the end of the current page
and resume printing on the next page. If unable to find
the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the
structured field in the input data stream or resource.
PSF issues additional messages identifying the
processing environment in which the error occurred.

User response: If the structured fields are not valid
and you created the structured fields for the resource or
print data set containing the image, correct the error in
the referenced structured field and resubmit the print
request. Refer to *Mixed Object Document Content
Architecture Reference* for more information about the
structured field. If the structured field has no error, the
error might be a PSF logic error. If you used a program
to create the structured fields for the resource or print
data set containing the image, contact your system
programmer.

System programmer response: If an IBM licensed
program was used to create the structured fields for the
print data set or the resource with the error, verify that
the input to that program was valid. If the input was
valid, refer to *PSF for z/OS: Diagnosis* for assistance in
determining the source of the problem.

Operator Response: If this message displays on the

operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS165I **DATA IN A CODE PAGE RESOURCE IS NOT VALID: GRAPHIC CHARACTER IDENTIFIER MUST NOT BE NULL IN THE CPI STRUCTURED FIELD.**

Explanation: The Graphic Character Identifier parameter in a Code Page Index (CPI) structured field cannot be null. The CPI structured field is in the code page.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and continue printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the code page resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the code page, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to and *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS166I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN ENTRY IN A MCF STRUCTURED FIELD CONTAINS AMBIGUOUS IDENTIFICATION.**

Explanation: A font in the Map Coded Font (MCF) structured field might be identified with a Coded Font Name parameter, with a combination of the Font Character Set Name parameter and the Code Page Name parameter, or with a Coded Font (also known as

a GRID) parameter. One of the repeating groups in an MCF structured field specified more than one of these ways to specify a font, or specified a Coded Font (GRID) and a section number other than 0. The MCF structured field is in the MO:DCA data, an overlay, or a page definition.

System action: If the error is contained in a page definition, PSF stops processing of the data set and continues processing with the next data set. Otherwise, PSF stops processing the page or overlay containing the structured field in error. PSF attempts to locate the end of the current page and resume processing on the next page. If unable to find the end of the page, PSF stops printing the data set.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS167I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN ENTRY IN AN MCF STRUCTURED FIELD CONTAINS INCOMPLETE IDENTIFICATION.**

Explanation: One of the repeating groups in a Map Coded font (MCF) structured field does not contain enough information to identify a coded font. A font in the Map Coded font (MCF) structured field might be identified either with a Coded font Name parameter, or with a combination of the Font Character Set Name parameter and the Code Page Name parameter. An entry contains only a Font Character Set Name parameter or a Code Page Name parameter. The MCF structured field is contained in a MO:DCA document, an overlay, or a page definition.

System action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the

end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS169I   INSUFFICIENT VIRTUAL STORAGE PREVENTED FURTHER PROCESSING. INCREASE REGION SIZE, AND RESUBMIT THE PRINT REQUEST.

Explanation: The storage available in the PSF address space is insufficient to contain the internal control block needed to read an object.

System action: PSF stops processing the current page, and prints any data accumulated for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: Inform your system programmer that this error occurred.

System programmer response: The size of the REGION parameter used for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the data set containing the error was spooled, increase the REGION parameter on the writer procedure.

Operator Response: If this message displays on the

operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 17, 19.

APS170I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SIMPLEX/DUPLEX VALUE IN MMC STRUCTURED FIELD, ID *identifier*, IS NOT ACCEPTABLE.

Explanation: In the Medium Modification Control (MMC) structured field with the specified identifier, the value for either the SIMPLEX keyword parameter value or the DUPLEX keyword parameter value is not valid. The MMC structured field is contained in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS171I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: FONT LOCAL IDENTIFIER VALUE IS NOT ACCEPTABLE IN THE *structured field* **STRUCTURED FIELD.**

Explanation: The Map Coded font (MCF) structured field consists of repeating groups. In one of the groups, the value of the Coded font Local Identifier parameter for the font (section) being mapped is not valid. The MCF structured field is contained in a MO:DCA document, an overlay, or a page definition.

System action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS172I DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDES BOTH NORMAL AND TUMBLE DUPLEX.

Explanation: The Medium Copy Count (MCC) structured field refers to one or more Medium Modification Control (MMC) structured fields, which include requests for both normal duplex and tumble duplex. You cannot request both normal duplex and tumble duplex within the same medium map. The MCC and MMC structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:
- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MCC or MMC structured field. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MCC and MMC have no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS178I DATA IN A FORMDEF RESOURCE IS NOT VALID: THE MCC STRUCTURED FIELD HAS AN ODD NUMBER OF COPY GROUPS, BUT SPECIFIES DUPLEX.

Explanation: The Medium Copy Count (MCC) structured field specifies an odd number of copy groups, but the copy group modifications specified in the Medium Modification Control (MMC) structured field include duplex, which requires an even number of copy groups. The MCC and MMC structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:
- PSF is not started, either for the default form definition or for a form definition specified for printing messages or separator pages.
- PSF cannot begin printing the data set for a form definition specified on a user's JCL OUTPUT statement; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MCC or MMC structured field. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MCC and MMC have no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS179I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDES BOTH SIMPLEX AND DUPLEX.

Explanation: The Medium Copy Count (MCC) structured field refers to two or more Medium Modification Control (MMC) structured fields, which include requests for both simplex and duplex printing. You cannot specify both simplex and duplex printing within the same medium map. The MCC and MMC structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MCC or MMC structured field. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function*

Presentation: Programming Guide and Line Data Reference for more information about the structured field. If the MCC and MMC have no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS181I   DATA IN A FORMDEF RESOURCE IS NOT VALID: UNEQUAL COPY COUNTS FOR DUPLEX SHEETS ARE SPECIFIED IN THE MCC STRUCTURED FIELD.

Explanation: The set of modifications referred to by the Medium Copy Count (MCC) structured field includes duplexing, but the numbers of copies in two corresponding repeating groups are not equal. The repeating groups are defined in the Medium Map Control structured field (MMC). The MCC and MMC structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- PSF is not started either for the default form definition or for a form definition specified for printing messages or separator pages.
- PSF cannot begin printing the data set for a form definition specified on a user's JCL OUTPUT statement; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MCC or MMC structured field. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MCC and MMC have no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that

program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS186I   **DATA IN A CODE PAGE RESOURCE IS NOT VALID: THE DEFAULT GRAPHIC CHARACTER NAME MUST NOT BE NULL IN A CPC STRUCTURED FIELD.**

Explanation: The Default Graphic Character parameter in a Code Page Control (CPC) structured field specifies the name of the graphic character raster pattern that is used when a pattern is not assigned to a code point in a Code Page Index (CPI) structured field. This parameter cannot have a null value. A null value is any value that contains X'FFFF' in the first two bytes. The CPC and CPI structured fields are in the code page.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the code page resource.

User response: If you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the code page, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS188I   **THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD SELECTS MORE THAN ONE INPUT SOURCE, AND THE DEVICE DOES NOT SUPPORT MORE THAN ONE INPUT SOURCE.**

Explanation: The Medium Copy Count (MCC) structured field refers to one or more Medium Modification Control (MMC) structured fields, which include requests for more than one input source or media-type local ID. You cannot specify more than one input source or media-type local ID for multiple copy groups, because the printer you are using does not support it. The MCC and MMC structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: Request that the job be printed on a printer that supports the specification of input source in the Load Copy Control (LCC) command. If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS190I **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE BIN SELECTION VALUE IN MMC STRUCTURED FIELD, ID** *identifier***, IS NOT ACCEPTABLE.**

Explanation: In the Medium Modification Control (MMC) structured field whose identifier is specified in the message text, the bin-selection parameter value was not valid. The MMC structured field is contained in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.

- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS191I **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SUPPRESSION LOCAL IDENTIFIER VALUE IN MMC STRUCTURED FIELD, ID** *identifier***, IS NOT ACCEPTABLE.**

Explanation: The Medium Modification Control Identifier parameter in a Medium Modification Control (MMC) structured field is not valid. The MMC structured field is contained in the form definition.

System action: The form definition containing the

error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.

- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS192I **DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: THE PATTERN DATA ALIGNMENT PARAMETER IN THE FNC STRUCTURED FIELD CONTAINS AN UNACCEPTABLE VALUE.**

Explanation: The pattern data alignment value in the Font Control (FNC) structured field is not valid. The FNC structured field is contained in the font character set.

System action: PSF cannot print the current page, but attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more

information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS193I   DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: BYTES 4–9 OF THE FNC STRUCTURED FIELD SPECIFY METRICS THAT ARE EITHER INCORRECT OR UNSUPPORTED BY THIS PRINTER.

Explanation: Bytes 4–9 were specified incorrectly in a Font Control (FNC) structured field. The FNC structured field is contained in the font character set.

System action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS194I   DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: THE CHARACTER INCREMENT VALUE IN THE FNI STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The Character Increment parameter in a repeating group in the Font Index (FNI) structured field has an incorrect value. The FNI structured field is contained in the font character set.

System action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS195I   DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: THE CHARACTER BOX SIZE VALUE IN THE FNI STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The Character Box Size parameter in a repeating group in a Font Index (FNI) structured field has an incorrect value. The FNI structured field is contained in the font character set.

System action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the

structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS196I   DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: THE PATTERN DATA ADDRESS VALUE IN THE FNI STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: A Pattern Data Address parameter in a repeating group of a Font Index (FNI) structured field has an incorrect value. The FNI structured field is contained in the font character set.

System action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for*

z/OS: Customization for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS197I   DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: NO FNI STRUCTURED FIELD WAS FOUND CORRESPONDING TO THE FONT INDEX NUMBER SPECIFIED IN AN FNO DATA GROUP.

Explanation: The FNO data group for the character rotation required by the font contains a font index number as part of the Flags byte. The index number specifies which Font Index (FNI) structured field in the font character set to use. The required FNI structured field was not found. The FNI and FNO structured fields are in the font character set.

System action: PSF cannot print the current page, but attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS199I   AN ATTEMPT IS BEING MADE TO LOAD A REQUESTED DOUBLE-BYTE FONT INTO A PRINTER MODEL OR CONFIGURATION THAT MAY NOT BE ABLE TO ACCEPT IT.

Explanation: A request has been made to use a double-byte font on a printer that is not configured for double-byte fonts.

System action: In addition to this message, PSF issues messages identifying the current record and the processing environment. PSF tries to load the font into the printer. If that loading fails, subsequent messages identify the font in question, and tell where that font is referenced.

User response: Ensure that documents requiring double-byte fonts are routed to a printer model or configuration that can process them. Otherwise, do not use double-byte fonts.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS206I   THE DATA SET WAS TERMINATED; THE MESSAGE THRESHOLD SPECIFIED ON PIMSG WAS REACHED.

Explanation: The number of message groups specified in the PIMSG JCL keyword was reached. The message limit was specified either in the JCL for the data set, or in the procedure used to start PSF. If a number for PIMSG was not specified, the PSF default of 16 was used.

System action: PSF stops processing the current data set, releases it to JES, and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement. Pages that were being processed when the message group limit was reached might also print. Processing continues with the next data set.

User response: Fix the errors reported in accompanying messages or raise the PIMSG limit and resubmit the print request. If you did not set the value of PIMSG to this limit and you do not want the limit enforced on the next print request, specify your own PIMSG value on the JCL for the next print request. For information on how to code the PIMSG keyword, refer to *PSF for z/OS: User's Guide*.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS207I   A DOUBLE-BYTE FONT WAS SPECIFIED FOR A PRINTER THAT DOES NOT SUPPORT DOUBLE-BYTE FONTS.

Explanation: A request to use a double-byte font was made to a printer that does not support double-byte fonts.

System action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: Ensure that documents requiring double-byte fonts are routed to a printer model or configuration that can process them. Otherwise, do not use double-byte fonts.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS209I   DATA IN FORMDEF RESOURCE *formdef name* IS NOT ACCEPTABLE FOR MEDIA ORIGIN OVERRIDE AS REQUESTED.

Explanation: The Infoprint Server Printer Inventory or PSF Exit 7 requested that the media origin be changed to match the 3800 media origin, but the form definition specified capabilities that are not supported by the 3800, such as N_UP or Presentation System Setup IDs. These functions are not acceptable when the media origin is being overridden.

System action: The media origin override request is ignored, and PSF continues processing, using the current form definition and the requested functions.

User response: No response is necessary.

System programmer response: Refer to *PSF for z/OS: Customization* for a list of functions that are not available with the media origin override.

Operator Response: No response is necessary.

Problem determination: None.

APS210I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A REQUIRED TRIPLET OR SELF-DEFINING PARAMETER WITH ID *id* **WAS MISSING FROM A** *structured field name* **STRUCTURED FIELD.**

Explanation: The triplet or self-defining parameter specified in the message was not found in the indicated structured field. This is a required triplet or self-defining parameter.

System action: If the structured field is included in an object embedded in a page or overlay, or if the structured field is in a resource included in a page or overlay, PSF stops processing the page or overlay. PSF tries to find the end of the current page and resume processing on the next page. If PSF cannot find the end of the current page, it stops printing the data set.

For non-presentation object containers, PSF stops printing the data set.

If the error is contained in a page definition or form definition, PSF stops processing the current data set and continues processing with the next data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

PSF issues a message that identifies the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 13, 17.

APS212I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE UNIT BASE PARAMETER IN THE *structured field name* **STRUCTURED FIELD IS NOT VALID.**

Explanation: An incorrect Unit Base value was encountered in the structured field identified in this message.

System action: PSF cannot print the current page. PSF tries to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 13, 17.

APS213I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE L-UNITS PER UNIT BASE PARAMETER IN THE *structured field name* **STRUCTURED FIELD IS NOT VALID.**

Explanation: An incorrect L-Units value was encountered in the structured field identified in this message. The structured field is in the Object Environment Group of an image object. The image object can be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in

a data set containing line data.

System action: PSF stops processing the current page or overlay. Processing continues with the next page or overlay. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 13, 17.

APS214I   **DATA IN A FORMDEF RESOURCE IS NOT VALID: CONSTANT FORMS CONTROL, SPECIFIED IN MEDIUM MAP** *medium map name***, IS NOT ALLOWED WITH ENHANCED N_UP. THE CONSTANT FORMS CONTROL IS IGNORED.**

Explanation: Both enhanced N_UP and Constant Forms Control were requested in the form definition, but Constant Forms Control is not allowed when Enhanced N_UP is being used. Function similar to Constant Forms Control might be specified in the *PgFlgs* and *PMCid* parameters of the Page Position (PGP) Format 2 structured field. To request enhanced N_UP, specify explicit page placement in the PGP structured field and specify N_UP in the Medium Modification Control (MMC) structured field. The Constant Forms Control is in the MMC structured field. The MMC and PGP structured fields are in the form definition.

System action: The Constant Forms Control is ignored, and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the

print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS215I   **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE PAGE MODIFICATION CONTROL IDENTIFIER IN THE** *structured field* **STRUCTURED FIELD IS NOT ACCEPTABLE.**

Explanation: An incorrect Page Modification Control identifier was encountered either in the Page Modification Control (PMC) structured field or in a Page Position (PGP) Format 2 structured field repeating group. The PMC and PGP structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.

- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed

program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS217I   DATA IN AN INPUT RECORD IS NOT VALID: PARAMETER IN A BR STRUCTURED FIELD CONTAINS UNACCEPTABLE DATA.

Explanation: One of the parameters in the Begin Resource (BRS, also called BR) structured field is not valid. The BRS structured field is in the print data set.

System action: PSF stops printing the current data set and issues a message identifying the processing environment in which the error occurred.

User response: If you placed the BR structured field in the print data set, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If you used a program to place the BR structured field in the print data set, consult your system programmer.

System programmer response: If an IBM licensed program was used to place the BR structured field in the print data set, verify that the input to that program was valid. If it was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS218I   DUPLEXING WAS REQUESTED, BUT IS NOT SUPPORTED BY THIS PRINTER OR BY ALL OF THE INPUT BINS THAT WERE USED. THE OUTPUT IS PRINTED SIMPLEX.

Explanation: Duplexing was requested but is not supported by the printer or by the input bins that were being used. If multiple copies of a page are being printed from different input bins and not all input bins support duplex, output for the page is printed simplex.

System action: PSF issues this message and continues processing, printing in simplex.

User response: If you do not want simplex output, submit the print request to a printer that supports duplex printing, or specify an input bin that supports duplex

printing, if your installation has one. If you are printing multiple copies of a page from different input bins, ensure that all input bins requested for all copies support duplex printing.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS219I   THE INPUT BIN WITH COMPONENT ID *component ID*, **MEDIA NAME** *media name*, **BIN NUMBER** *bin number* **WAS DISABLED. AN ALTERNATE BIN WAS SUBSTITUTED.**

Explanation: The Medium Modification Control (MMC) structured field requested an input bin that is supported by the printer but was disabled. A value of *** for any of the three values means that piece of information was not provided by the MMC structured field. The input bin is selected by a media source selector keyword and/or media type local ID keywords in the MMC structured field. The media type local ID keywords specify the ID of a Map Media Type (MMT) structured field that contains an Object Identifier (IOD) and/or Media Name. The MMC and MMT structured fields are contained in the form definition.

System action: PSF continues processing, selecting paper from an alternative bin.

User response: If the output is not acceptable, submit the print request to a printer that has the specified bin available, or ensure that the bin is enabled on the original printer before resubmitting the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS220I   OFFSET STACKING WAS SPECIFIED IN THE MMC STRUCTURED FIELD BUT IS NOT SUPPORTED BY THIS PRINTER. THE OUTPUT IS NOT OFFSET.

Explanation: Offset stacking is not supported by this printer.

System action: PSF issues this message and continues processing without offsetting the output.

User response: If you want offset stacking, submit the print request to a printer that supports offset stacking.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS221I DATA IN A FORMDEF RESOURCE IS NOT VALID: THE ORIENTATION VALUE *value* **IN THE MDD STRUCTURED FIELD IS UNACCEPTABLE.**

Explanation: The Medium Descriptor (MDD) structured field has an incorrect orientation value. The MDD structured field is in the form definition for the job.

System action: If the form definition was specified by the job, PSF stops processing the data set and issues an accompanying APS101I message. If the form definition is the default or is a form definition specified for printing messages or separator pages, PSF is not started. PSF issues a message identifying the position of the structured field in the FORMDEF. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 17.

APS222I DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: THE FNM INDEX IN THE FNI STRUCTURED FIELD CONTAINS AN UNACCEPTABLE VALUE.

Explanation: The FNM index value is not valid in the Font Index (FNI) structured field. The FNI structured field is in the font character set.

System action: PSF cannot print the current page, but attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error was found.

User response: If you created the structured fields for

the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS223I A FORMDEF RESOURCE REQUESTED ENHANCED N_UP AND A CONFLICTING VALUE FOR DUPLEX WAS SPECIFIED ON THE OUTPUT STATEMENT.

Explanation: When enhanced N_UP is requested, the DUPLEX keyword on the OUTPUT statement cannot be used to change from duplex (specified in the form definition) to simplex or vice versa. The reason is that with enhanced N_UP, the Page Position (PGP) Format 2 structured field specified the partition number and sheet side for each page placed on a sheet. If the duplex value is changed from duplex to simplex or vice versa, PSF does not have the information it needs to place the pages.

The only valid options for the DUPLEX keyword when enhanced N_UP is specified in the form definition are:

- If the form definition requests normal or tumble duplex, you can specify either DUPLEX=NORMAL or DUPLEX=TUMBLE on the output statement.
- If the form definition requests simplex, you can specify DUPLEX=NO on the output statement.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Advanced Function Presentation: Programming Guide and Line Data Reference*.

User response: Resubmit the job without requesting the DUPLEX keyword on the output statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 12, 17, 19.

APS225I   **SYSTEM ACTION TAKEN: THE ERRORS LISTED PREVENTED THE PRINTING OF THE DATA SET. THE DATA SET WILL BE HELD.**

Explanation: Errors were detected while PSF was processing a data set. These could be I/O errors or errors encountered while mapping a required resource. Mapping is the procedure PSF uses to process these resources when they are selected for use in printing a data set. The resource errors consist of structured field sequence problems, data value errors, or loading errors. PSF marked the data set unprintable, and returned the data set to the Job Entry Subsystem (JES) to be marked as held for release by the operator. Informational messages preceding this message explain why the data set was not printed.

System action: Processing continues with the next data set.

User response: The accompanying error messages determine what corrections must be made before you can release the data set and try the print request again. Only attempt to try the print request again if the error was corrected by replacing a resource. Otherwise, the current print request should be canceled and a new one created.

System programmer response: No response is necessary.

Operator Response: Requeue the data set as requested. Use JES commands to release the data set.

Problem determination: Items 1, 2, 3, 17.

APS226I   **THE ASSOCIATED DATASET WAS PRINTED WITH** *psf_version* **ON** *name*, **WHICH IS A** *type*.

Explanation: The listed printer type identifies the device selected for printing the data set associated with the specified PSF version and printer name and type. *psf_version* is the current version of PSF; *name* is the printer name if the printer is a JES printer, or the printer control statement name if the printer is being used in direct-printing mode; *type* is the printer device type.

System action: This message is issued only if other messages are issued for the data set, and if the PIMSG parameter is set to YES either in the JCL for the print job or in the PSF startup procedure.

User response: Ensure that the type of the device is what you expected. Output formatted for one type of page printer might print with errors on another type of printer.

System programmer response: Ensure that the type of the device is what you expected. Output formatted for one type of page printer might print with errors on another type of printer.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 8, 19.

APS227I   **THE SUM OF THE NUMBER OF SECURITY OVERLAYS AND USER OVERLAYS FOR ONE PAGE IS MORE THAN 8.**

Explanation: When the number of overlays specified in the Medium Modification Control (MMC) structured field on the user's output statement and the number of security overlays is added, the total is more than eight. A maximum of eight overlays per page is permitted on this printer. The MMC structured field is contained in the form definition.

The limit for the total number of overlays depends on the printer you use. For more information, refer to *Printer Information*.

System action: If the error occurred in a page, PSF attempts to find the end of the page. If PSF finds the end of the page, PSF prints any accumulated data for the current page. If unable to find the end of the page, PSF stops processing the data set. If the error occurred on a separator page or a message data set, PSF cannot print the separator page or the message data set, and an error message is issued to the operator's console. PSF issues a message identifying the position of the MMC structured field that caused the error. PSF issues additional messages identifying the environment in which the error is found.

User response: If you created the form definition that contains the MMC structured field, you must remove one or more of the overlays, depending on how many security overlays are printed on your class of job. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. Resubmit the print request. If the total number of user overlays and security overlays is less than or equal to 8, the error might be a PSF logic error. To find out how many security overlays are placed on your pages, consult your system programmer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 28.

APS228I   **PAGE LABELING WAS IN EFFECT, BUT NO SECURITY OVERLAYS WERE FOUND IN THE** *security label* **MEMBER OF THE SECURITY DEFINITIONS LIBRARY FOR THE CURRENT PAGE SIZE AND PAGE TOP.**

Explanation: When page labeling is in effect (SPAGELBL = YES or DPAGELBL = yes), at least one security overlay must be listed in the appropriate entry of the security definitions library member used to print this page. The appropriate entry is based upon the page size and top specification. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Ensure that at least one overlay for the page top, page size, and security label is listed in the security definitions library member referenced in the message. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

APS229I   SYSTEM ACTION TAKEN: THE ERRORS LISTED OCCURRED DURING THE PROCESSING OF THE SECURITY DEFINITIONS LIBRARY. PROCESSING OF THE DATA SET WAS TERMINATED.

Explanation: This message is issued in addition to a message describing an error that occurred during processing of a member of the security definitions library. Other error messages issued by PSF describe the precise error condition.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: See the specific error conditions described in the accompanying messages to determine an appropriate response.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

APS230I   THE KEYWORD *value* **IN THE** *security label* **MEMBER OF THE SECURITY DEFINITIONS LIBRARY IS NOT VALID.**

Explanation: A keyword that is not valid for entry in the security definitions library was found during the processing of the member for the specified security label. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the keyword in the appropriate member of the security definitions library. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

APS231I   REQUIRED KEYWORD SECOVLY, UPADIM, OR UPAORG IS MISSING FROM AN ENTRY IN THE *security label* **MEMBER OF THE SECURITY DEFINITIONS LIBRARY.**

Explanation: While processing an entry in a security definitions library member, PSF could not find a required keyword. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Add the required keyword to correct the entry in the appropriate member of the security definitions library. Cancel and restart the PSF startup procedure; then release the job that is held. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

APS232I PAPERNAM *value* IS NOT A SYSTEM-DEFINED PAPER NAME. IT WAS ENCOUNTERED WHILE PROCESSING THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY.

Explanation: While PSF was processing an entry in a security definitions library member, the PAPERNAM keyword was found. The paper name specified for this keyword is not a valid, system-defined paper name. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

APS233I THE *value* KEYWORD IS OUT OF SEQUENCE IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY.

Explanation: While PSF was processing an entry in a member of the security definitions library, the specified keyword was found when a different keyword was expected. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

APS234I THE SECOVLY KEYWORD WAS FOUND BUT NO OVERLAYS WERE SPECIFIED IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY.

Explanation: While PSF was processing an entry in a security definitions library member, the SECOVLY keyword was found, followed by another keyword. An overlay name was expected. At least one overlay name is required to perform either data page labeling or separator page labeling for the job. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

APS235I THE UNIT *unit* IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY IS NOT VALID.

Explanation: While PSF was processing an entry in a security definitions library member, an incorrect unit of measurement was processed. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

APS236I   THE NUMBER *number* IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY IS NOT VALID.

Explanation: While PSF was processing an entry in a security definitions library member, a number was processed that either is not numeric or is outside the valid range. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

APS237I   A PAPER SIZE MATCHING THE LOADED PAPER WAS NOT FOUND IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY.

Explanation: No entry was found in the security definitions library member to match the size of the paper loaded in one of the printer bins. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Add an entry to the appropriate member of the security definitions library for the paper size in the specified bin. Ensure that the PAPERSIZ specified is within plus or minus .04 inches of the actual form size loaded in the printer. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: An unusual paper size might have inadvertently been left in the specified bin. If so, replace the bin contents with paper of the correct size.

Problem determination: Items 2, 17, 28.

APS239I   SYSTEM ACTION TAKEN: THE ERRORS LISTED OCCURRED DURING PROCESSING OF A SECURE RESOURCE. PROCESSING OF THE DATA SET WAS TERMINATED.

Explanation: An error occurred during processing of a secure resource. The objects being processed are provided to other PSF messages to identify the location of the error in the resource.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 1, 2, 3, 8, 15, 17, 28.

APS240I   THE OVERLAY NAME *name* IN THE *security label* MEMBER OF THE SECURITY DEFINITIONS LIBRARY IS NOT VALID.

Explanation: While PSF was processing an entry in a security definitions library member, an overlay name that is too long was processed. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the entry in the appropriate member of the security definitions library. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

**APS241I   SYSTEM ACTION TAKEN: THE
            ERRORS OCCURRED DURING
            PROCESSING OF FINISHING
            OPERATION TRIPLETS. THESE
            FINISHING OPERATION TRIPLETS
            WILL NOT BE USED IN THE
            PROCESSING OF THE DATA SET. THE
            PROCESSING OF THE DATA SET
            CONTINUES.**

Explanation: A Finishing Operation triplet is not valid
or forms an incorrect request because it is not
compatible with other triplets in the same request. The
triplet is not used to process this data set. Informational
messages preceding this message explain why the
Finishing Operation triplet could not be used.

System action: The triplet is ignored and processing
continues. PSF issues additional messages identifying
the processing environment in which the error occurred.

User response: If you created the structured fields for
the form definition, correct the error and resubmit the
print request. Refer to *Mixed Object Document Content
Architecture Reference* and *Advanced Function
Presentation: Programming Guide and Line Data
Reference* for more information about the structured
field. If the structured field has no error, the error might
be a PSF logic error. If you used a program to create
the structured fields for the form definition, contact your
system programmer.

System programmer response: If an IBM licensed
program was used to create the structured fields for the
form definition with the error, verify that the input to that
program was valid. If the input was valid, refer to *PSF
for z/OS: Diagnosis* for assistance in determining the
source of the problem.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page, for
the message data set, or as the default resource for
user print data sets in the PSF startup procedure.
Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

**APS242I   CUT-SHEET EMULATION CAUSED TOO
            MANY COPY CONTROLS TO BE
            GENERATED FOR THE CURRENT
            FORM ENVIRONMENT GROUP.**

Explanation: For a given physical page, up to 256
bytes of data can be specified for the printer command
that describes the copies and modifications to be made.
When Cut-Sheet Emulation is being used, PSF must
make modifications to the printer command. The
modifications for Cut-Sheet Emulation caused data for
the printer command to exceed 256 bytes. PSF builds
the printer command from data contained in the form
definition.

System action: The form definition causing the error

for Cut-Sheet Emulation is not used, and one of these
occurs:

- If the error is in the default form definition, or a form
  definition specified for printing messages or separator
  pages, PSF is not started.

- If the error is in a form definition specified on the
  user's JCL OUTPUT statement, PSF cannot begin
  printing the data set; it tries to print the next data set.

User response: Either reduce the number of copies
specified, or reduce the number of modifications
(suppressions, overlays, etc.) specified. Otherwise, split
these functions between two or more Form Environment
Groups in two or more medium maps (COPYGROUPS).
Then include in your input two or more identical copies
of the same page, each of which selects an appropriate
copy group by use of the Invoke Medium Map (IMM)
structured field.

If you created the structured fields for the form
definition, the number of copies or copy groups is
specified in the Medium Copy Count structured field,
and the medium modifications are specified in the
Medium Modification Control (MMC) structured field. For
more information about the MCC, MMC, and IMM
structured fields, refer to *Mixed Object Document
Content Architecture Reference*.

System programmer response: Use the information
provided in the User Response section to correct this
error.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page, for
the message data set, or as the default resource for
user print data sets in the PSF startup procedure.
Inform your system programmer.

Problem determination: None.

**APS244I   DATA IN AN INPUT RECORD OR
            RESOURCE IS NOT VALID: THE
            structured field name STRUCTURED
            FIELD CONTAINS TOO MANY
            REPEATING GROUPS.**

Explanation: The structured field name contains more
repeating groups than are allowed. The structured field
in which the error appears can be in a Resource
Environment Group (REG), a composed text page, an
overlay, or a page definition.

System action: If this error occurs in a resource, PSF
stops processing the data set. If this error occurs in a
REG, PSF stops processing the REG and continues
processing the data set. If this error occurs in a
composed text page, PSF stops processing the current
page. PSF attempts to find the end of the current page
and resume printing on the next page. If unable to find
the end of the current page, PSF stops printing the data
set. PSF issues additional messages identifying the
processing environment in which the error was found.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field contains no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 17, 19.

APS245I   **A COMPLEX IM IMAGE OBJECT CONTAINS DATA WHICH IS NOT VALID OR IS INCORRECT. THE COMPLEX IM IMAGE OBJECT CANNOT BE CONVERTED TO AN IO IMAGE OBJECT.**

Explanation: This message is issued when PSF converts a complex IM image object to an IO image object and the image size is not large enough to contain the image raster data from the IRD structured fields. This message is issued only when PSF Exit 7 or the Printer Inventory has requested that PSF convert a complex IM image object to a single IO image object.

This message is issued if any of the following is true:

- The XCSize parameter value of the ICP structured field is larger than the calculated image X size.
- The YCSize parameter value of the ICP structured field is larger than the calculated image Y size.
- The XCOset plus XFilSize parameter values of the ICP structured field are larger than the calculated image X size.
- The YCOset plus YFilSize parameter values of the ICP structured field are larger than the calculated Y size.

When PSF converts a complex IM image object to an IO image object, PSF calculates the image size by subtracting the X and Y image origins from the X and Y page sizes.

The X and Y image origins are from the XoaOset and YoaOset parameter values of the IOC structured field.

The X and Y page sizes are from the XpgSize and YpgSize parameter values of the PGD structured field, if the image object is in a MO:DCA data set or in an overlay, or is embedded in a data set containing line data. For an image object in a page segment, the X and Y page sizes used by PSF are from the X and Y paper sizes of the current media source (media bin).

The IOC and ICP structured fields are in a MO:DCA data set, in an overlay, or in a page segment, or are embedded in a data set containing line data. The PGD structured field is in a MO:DCA data set, in an overlay, or in a page definition.

System action: PSF stops processing the image object and issues additional messages identifying the processing environment in which the error occurred. PSF sends the part of the image that was successfully processed, if any, to the printer. PSF then continues processing the current data set.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field, and resubmit the print request. For more information about the MMC structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer that this error occurred.

Problem determination: Items 13, 17, 19.

APS246I   **THE UPADIM VALUE IN THE** *security label* **MEMBER OF THE SECURITY DEFINITIONS LIBRARY WAS EITHER MISSING OR NOT VALID FOR THE CURRENT PAGE SIZE AND PAGE TOP.**

Explanation: Either the UPADIM parameter was not specified in the appropriate entry in a security definitions library member, or one or both of the values were not valid. The appropriate entry is based on the page size and top specification. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Ensure that valid values are specified for the UPADIM parameter in the member of the security definitions library referenced in the message. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Notify the security administrator or the system programmer responsible for the security definitions library that this error occurred. Refer to the publication containing JES operator commands for your operating system for a command to release the data set for printing after the problem has been corrected.

Problem determination: Items 2, 17, 28.

APS247I   THE TOP KEYWORD VALUE *value* **IN THE** *security label* **MEMBER OF THE SECURITY DEFINITIONS LIBRARY IS NOT VALID.**

Explanation: While PSF was processing the member for the specified security label in a security definitions library, an incorrect value for the TOP keyword was found. The name of the member in the security definitions library is the security label of the print job.

System action: PSF releases the current data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the parameter in the appropriate member of the security definitions library. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 28.

APS248I   MULTIPLE COPIES FROM DIFFERENT INPUT BINS WERE REQUESTED WHILE PAGE LABELING WAS IN EFFECT, BUT THE BIN ATTRIBUTES DID NOT MATCH.

Explanation: Multiple copies from different input bins were requested in the form definition, but the two bins are loaded with paper of different sizes. Because page labeling is in effect, if multiple copies are requested from different input bins, the input bins must be configured the same.

System action: PSF stops processing the current data set and issues additional messages identifying the processing environment in which the error occurred. If the error occurred on a separator page or the message data set, PSF releases the current data set back to JES

and requests that the system hold it.

User response: Change the form definition to request multiple copies from input bins that have the same paper size configuration, and resubmit the print request.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If the form definition is correct, and copies are needed from the specified input bins, load both bins with paper of the same size. If the message displays on the operator's console, it indicates that the error occurred for a separator page or for the message data set. Check that the input bins are loaded with paper of the correct size. If yes, notify your system programmer of the problem.

Problem determination: Items 2, 17, 28.

APS249I   MICR FONT *micr font name* **WAS SPECIFIED FOR A PRINTER THAT EITHER DOES NOT SUPPORT MICR FONTS OR HAS THE MICR FONT SUPPORT DISABLED.**

Explanation: The specified font supports magnetic ink character recognition (MICR), but either the device does not support MICR fonts or the support has been disabled.

In Advanced Function Presentation™ (AFP) fonts, the Font Control (FNC) structured field indicates that the font supports MICR.

When mapping TrueType and OpenType fonts, the Data Object Font Descriptor triplet (X'8B') indicates that the font supports MICR.

System action: PSF cannot print the current data set. PSF stops processing and printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred. PSF releases the current data set back to JES and requests that it be held by the system, unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: If you do not want MICR fonts, select a non-MICR font for the data set. If you do want MICR fonts, verify that the printer supports MICR. If the printer does support MICR, verify that the support is enabled; otherwise, choose a printer that supports MICR.

System programmer response: No response is necessary.

Operator Response: If the printer is disabled, enable it, if appropriate.

Problem determination: Items 1, 2, 3, 8, 13, 17, 19.

APS250I   DATA IN A PAGE OR RESOURCE IS MISSING: THE REQUIRED STRUCTURED FIELD *structured field name* **COULD NOT BE FOUND TO COMPLETE THE PROCESSING OF A PAGE OR RESOURCE.**

Explanation: The structured field identified in this message is required in order to complete the processing of a page or a resource. This structured field was not found before the end of the page or resource was encountered.

System action: PSF stops processing the current page, and any accumulated data for the current page is printed.

PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If the error occurs as a result of a missing structured field within an inline resource, PSF stops printing the data set.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS251I   DATA IN A FORMDEF RESOURCE IS MISSING: THE FORMDEF DOES NOT CONTAIN ANY MEDIUM MAPS.

Explanation: The form definition did not specify any medium maps; however, a medium map is required in order to print a page.

System action: The form definition is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.

- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS252I   THE FORM DEFINITION OR THE JCL COPIES PARAMETER SPECIFIED MULTIPLE COPIES OF A PAGE, BUT THE PRINTER DOES NOT SUPPORT THIS FUNCTION.

Explanation: More than one uncollated copy of a page was requested for this print request, but the printer selected to print the job does not support this function. The multiple copies were requested either by the JCL COPIES parameter or by the Medium Copy Count (MCC) structured field in the form definition.

System action: PSF prints only one copy of the page, and processing continues.

User response: If you require multiple copies of a page, resubmit the print request to a printer that supports the function.

If you do not require multiple copies of a page, and if you specified the form definition or the COPIES parameter in the JCL for the print job, do one of these:
- Specify a form definition that does not request multiple copies of a page, and resubmit the print request.
- Remove the request for multiple copies of a page from the form definition, and resubmit the print request with the same form definition specified in your JCL.

- Change the COPIES parameter specification in your JCL, and resubmit the print request.

If you do not require multiple copies of a page, and if you did not specify the form definition or the COPIES parameter in the JCL for the print job, resubmit the print request, specifying either a COPIES parameter of one or a form definition that does not request multiple copies of a page in the JCL for your print job.

System programmer response: If the error involved separator pages or the message data set, change the form definition named in the PRINTDEV statement that is used for that type of output so that it does not request multiple copies.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS253I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE PRINT QUALITY VALUE IN MMC STRUCTURED FIELD, ID *identifier***, IS NOT ACCEPTABLE.**

Explanation: The Medium Modification Control (MMC) structured field specified a print quality value of 0, which is outside the valid range. The MMC structured field is contained in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF*

for z/OS: Diagnosis for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS254I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE OFFSET STACKING VALUE IN MMC STRUCTURED FIELD, ID *identifier***, IS NOT ACCEPTABLE.**

Explanation: The Medium Modification Control (MMC) structured field specified an offset stacking value other than 0 or 1. The MMC structured field is in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS255I   THE INPUT BIN WITH COMPONENT ID *component ID***, MEDIA NAME** *media name***, BIN NUMBER** *bin number* **WAS NOT SUPPORTED ON THE PRINTER. AN ALTERNATE BIN WAS SUBSTITUTED.**

Explanation: The Medium Modification Control (MMC) structured field specified a media selection that does not exist on the selected printer. A value of *** for any of the three values means that piece of information was not provided by the MMC structured field. The input bin is selected by a media source selector keyword and/or media type local ID keywords in the MMC structured field. The media type local ID keywords specify the ID of a Map Media Type (MMT) structured field that contains an Object Identifier (OID) and/or Media Name. The MMC and MMT structured fields are in the form definition.

System action: PSF issues this message and continues processing, selecting paper from an alternate bin.

User response: If the output is not acceptable, submit the print request to a printer that supports the specified media selection. If you want to use the original printer, and if you created the structured fields for the form definition, specify a supported bin in the MMC structured field. For more information about the MMC structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field contains the component ID, media name, or number of a supported bin, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, ensure that the input to that program specified a supported bin. If it did, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS256I   DUPLEXING WAS SPECIFIED IN THE MMC STRUCTURED FIELD, BUT THE DUPLEX PAPER PATH IS DISABLED AT THE PRINTER. THE OUTPUT IS PRINTED SIMPLEX.

Explanation: The Medium Modification Control (MMC) structured field requested duplexing, but the duplex paper path has been disabled at the printer. The MMC structured field is contained in the form definition.

System action: PSF continues processing, printing the data set simplex.

User response: If simplex output is not acceptable, submit the print request to a printer that has duplexing available, or ensure that the duplex paper path is enabled on the original printer before resubmitting the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS258I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: *structured field* **STRUCTURED FIELD IS NOT ALLOWED BETWEEN OBJECTS.**

Explanation: The structured field identified in this message is not allowed at the point in the input data stream or resource at which it was found.

System action: PSF stops processing the current data set and issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured fields are in the correct order, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS259I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE X-DIRECTION AND Y-DIRECTION L-UNITS PER UNIT BASE VALUES SPECIFIED IN THE *structured field* **STRUCTURED FIELD DO NOT MATCH.**

Explanation: The X-direction and Y-direction L-units per Unit Base values in the structured field identified in the message are not identical.

System action: PSF cannot print the current page.

PSF tries to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS260I   THE OBJECT SPECIFIED WITH THE *structured field* **STRUCTURED FIELD IS NOT SUPPORTED ON THIS PRINTER.**

Explanation: PSF has encountered a valid Advanced Function Presentation (AFP) object that is not supported by the printer. The object is identified either by its Begin structured field, or by an Invoke structured field such as Include Page Overlay (IPO), or by an OTH record (object container without MO:DCA structured fields wrapping the data).

System action: If the Begin or Include structured field is embedded in a page or overlay OR the Begin or Include structured field or the OTH record is in a resource included by a page or overlay, PSF stops processing the page or overlay. PSF attempts to locate the end of the current page and resume processing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

User response: To print the object type indicated in the message, submit the print job to a printer that supports the object type. For more information about

what object types are supported by your printer, refer to your printer documentation.

System programmer response: Delete the unsupported object type from the separator page data set for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the separator page data set contained the unsupported object type. Inform your system programmer that this error occurred.

Problem determination: None.

APS261I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: STRUCTURED FIELD *structured field* **CONTAINED A FONT LOCAL IDENTIFIER VALUE THAT WAS USED IN A PREVIOUS FONT MAPPING STRUCTURED FIELD.**

Explanation: One or more font-mapping structured fields in the same Active Environment Group or Object Eenvironment Group used the same font local identifier for different fonts. Fonts can be mapped in a Map Coded Font (MCF) and a Map Data Resource (MDR) structured field. Each font mapped must have a unique font local identifier. The MCF and MDR structured fields can be in the MO:DCA print data set, an overlay, a graphics object, a bar code object, or a page definition.

System action: If you created the structured fields in the object containing the error, check the font local identifiers in the MCF and MDR structured fields for duplicates. If the MCF and MDR structured fields have no error, the error might be a PSF logic error. If you used a program to create the structured fields in the object containing the error, consult your system programmer.

User response: If you created the structured fields in the object containing the error, check the font local identifiers in the MCF and MDR structured fields for duplicates. If the MCF and MDR structured fields have no error, the error might be a PSF logic error. If you used a program to create the structured fields in the object containing the error, consult your system programmer.

Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS262I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: STRUCTURED FIELD** *structured field* **CONTAINS AN INCORRECT ROTATION VALUE.**

Explanation: The rotation value specified in the named structured field was not valid.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS263I **AN ATTEMPT WAS MADE TO INCLUDE PAGE OVERLAY** *O1xxxxxx* **BUT EITHER THIS PAGE OVERLAY IS NOT NAMED IN AN MPO STRUCTURED FIELD OR THE MPO INDICATES THAT THIS OVERLAY IS FOR ANNOTATION ONLY.**

Explanation: An Include Page Overlay (IPO) structured field names a page overlay, but the overlay was not previously defined in the Map Page Overlay (MPO) structured field, or the MPO indicates that the overlay is for annotation only, and is not to be used for printing. The MPO structured field is in the Active Environment Group (AEG) of the page that contains the

IPO. The MPO might be in the AEG of the MO:DCA data or a page definition.

System action: PSF stops processing the current data set and issues additional messages identifying the processing environment in which the error occurred.

User response: If the MPO indicates that this overlay is for annotation only, another MPO structured field must be created in the AEG that defines the page overlay. If you are using the input data to define the name of your page overlay and your input data is ASCII, this error can occur because the resource name in the MPO would be in EBCDIC.

If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS264I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A RESOURCE MAPPED BY AN** *structured field* **STRUCTURED FIELD IN AN OBJECT ENVIRONMENT GROUP IS NOT NAMED IN THE ACTIVE ENVIRONMENT GROUP OF THE PAGE OR RESOURCE.**

Explanation: A *structured field* structured field in an Object Environment Group names a resource, but that resource is not defined in the *structured field* structured field in the Active Environment Group of the page or resource containing the Object Environment Group.

System action: If the object is in a page, PSF stops processing the page and continues processing the data set. If the object is in a resource, PSF stops processing and printing the data set.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error.

If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS265I **THE FORMS DEFINITION OR THE JCL COPIES PARAMETER SPECIFIED MULTIPLE COPY SUB-GROUPS, BUT THE PRINTER DOES NOT SUPPORT THIS FUNCTION.**

Explanation: More than one copy subgroup was requested for this print job, but the printer selected to print the job does not support this function. The multiple copy subgroups were requested either by the JCL COPIES parameter or by the repeating groups referenced by the Medium Copy Count (MCC) structured field in the form definition.

System action: PSF stops processing and printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you require multiple copy subgroups, resubmit the print request to a printer that supports the function.

If you do not require multiple copy subgroups and if you specified the form definition or the COPIES parameter in the print job for the JCL, do one of these:
- Specify a form definition that does not request multiple copy subgroups, and resubmit the print request.
- Remove the request for multiple copy subgroups from the form definition, and resubmit the print request with the same form definition specified in your JCL.
- Change the COPIES copy group parameter specification in your JCL, and resubmit the print request.

If you do not require multiple copy subgroups, and if you did not specify the form definition or the COPIES parameter in the JCL for the print job, resubmit the print request, specifying either a COPIES subgroup parameter of one or a form definition that does not request multiple copy subgroups in the JCL for your print job.

System programmer response: If the error involved separator pages or the message data set, change the form definition named in the PRINTDEV statement that

is used for that type of output so that it does not request multiple copy subgroups.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS267I **EITHER NO ENVIRONMENT GROUP WAS SPECIFIED FOR THE PAGE OR AN ERROR OCCURRED IN THE ENVIRONMENT GROUP.**

Explanation: Either no environment group was specified, or an error occurred in one of the structured fields in the environment group. If an environment group was present but contained an error, a previous PSF message identifies the error. The environment group causing this error might be in an overlay, a page definition, or the MO:DCA data.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 17, 19.

APS268I **AN ENTRY IN AN MCF STRUCTURED FIELD DOES NOT CONTAIN A FONT CHARACTER SET REFERENCE.**

Explanation: One of the repeating groups in a Map Coded Font Format 2 (MCF-2) structured field specifies the code page information but not the font character set.

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This error was detected during the processing of a GOCA object within a page or overlay resource.

System action: PSF continues processing. The repeating group that contains the error is ignored.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS269I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN INCORRECT VALUE WAS SPECIFIED AS THE L-UNITS PER UNIT BASE IN THE** *structured field name* **STRUCTURED FIELD.**

Explanation: Several structured fields specify an L-units per Unit Base value: Medium Descriptor (MDD), Page Descriptor (PGD), Presentation Text Descriptor (PTD-2), Object Area Descriptor (OBD), Graphics Data Descriptor (GDD), Image Data Descriptor (IDD), Bar Code Data Descriptor (BDD), Image Input Descriptor (IID), Include Object (IOB), and Preprocess Presentation Object (PPO). The value specified was outside the range of acceptable values

System action: PSF cannot print the current page. PSF tries to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 13, 17, 19.

APS270I   **DATA IN A PAGEDEF RESOURCE IS MISSING: THE PAGEDEF DOES NOT CONTAIN ANY DATA MAPS.**

Explanation: The page definition did not specify any data maps, but a data map is required in order to print a data set containing line data.

System action: The page definition is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS271I   **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE DUPLEX SPECIFICATION IN THE PGP STRUCTURED FIELD IS NOT ACCEPTABLE.**

Explanation: The duplex specification value in the Page Position (PGP) structured field is not acceptable. The PGP structured field is in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS272I   **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE PGP STRUCTURED FIELD DOES NOT CONTAIN A PAGE ORIGIN POSITION FOR THE FRONT SIDE OF A SHEET.**

Explanation: The Page Position format-2 (PGP) structured field must contain a repeating group that defines the Page Origin Position for the front side. This value is also used for the back side of a duplex sheet, unless the PGP structured field contains a repeating group that specifies the Page Origin Position for the back side of the sheet. The PGP structured field is in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS273I   **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE CONSTANT FORMS CONTROL VALUE IN THE MMC STRUCTURED FIELD ID** *identifier* **IS NOT ACCEPTABLE.**

Explanation: The Constant Forms Control modification in the Medium Modification Control (MMC) structured field contained an unsupported value. The MMC structured field is in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might

be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS274I   **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDE CONFLICTING CONSTANT FORMS CONTROL VALUES FOR THE SAME SIDE OF THE SHEET.**

Explanation: All Medium Modification Control (MMC) structured fields referenced by the Medium Copy Count (MCC) structured field must use the same Constant Forms Control value for the same side of a sheet. The MMC and MCC structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF*

for z/OS: Diagnosis for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS275I   **DATA IN A FORMDEF RESOURCE IS NOT VALID: MEDIUM MAP *medium map name* SPECIFIES ONLY CONSTANT DATA FOR A PAGE.**

Explanation: An attempt was made to process a page by use of a medium map that does not place any data on the sheet. The following combinations of controls can cause this message to be issued:

- Constant Forms Control for both the front and back sides of a duplexed sheet.
- Constant Forms Control for the front side of a simplex sheet.
- Basic N_UP requested, Constant Forms Control for the front side of a duplexed sheet, and the repeating group of the Page Position (PGP) Format 2 structured field for the back side of the sheet specifies a *PgFlgs* parameter value requesting no variable page data.
- Basic N_UP requested, Constant Forms Control for the back side of a duplexed sheet, and the repeating group of the PGP structured field for the front side of the sheet specifies a *PgFlgs* parameter value requesting no variable page data.
- Enhanced N_UP requested and all of the repeating groups of the PGP structured field specify a *PgFlgs* parameter value requesting no variable page data.

Another Medium Map must be invoked so that the remaining line or page data can be processed. The Constant Forms Control and the simplex/duplex requests are in the Medium Modification Control (MMC) structured field. To request basic N_UP, specify default page placement in the PGP structured field and specify N_UP in the MMC structured field. To request enhanced N_UP, specify explicit page placement in the PGP structured field and specify N_UP in the MMC structured field. The MMC and PGP structured fields are in the form definition.

System action: PSF cannot print the current data set. If unable to find the end of the page, PSF stops printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content*

Architecture Reference and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS276I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE BEGIN SEGMENT INTRODUCER IS MISSING IN THE FIRST GAD STRUCTURED FIELD IN A GRAPHICS OBJECT.**

Explanation: The first Graphics Data (GAD) structured field in a graphics object does not contain a Begin Segment Introducer. PSF examines the Begin Segment Introducer of the first GAD structured field in a graphics object, because some graphics applications add a comment record that must be removed before the graphics data is passed to the printer. The graphics object can be contained in a MO:DCA document, or an overlay, or it can be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. If the graphics object is part of another resource, PSF stops processing and printing the data set.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to

that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS277I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE GDD STRUCTURED FIELD IN A GRAPHICS OBJECT CONTAINS AN INCORRECT ID SUBSET ORDER OR SUBSET VERSION VALUE.**

Explanation: The values specified in either the Subset Order or Subset Version field of the GDD are not valid. The GDD structured field is in a graphics object. The graphics object can be contained in a MO:DCA document, or an overlay, or it can be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. If the object is part of another resource, PSF stops processing and printing the data set.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS278I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE MAPPING OPTION SPECIFIED IN THE *structured field name* **STRUCTURED FIELD IS INCORRECT OR UNSUPPORTED.**

Explanation: The structured field in error contained an incorrect Mapping Option value or the printer does not support the Mapping Option value. The structured field could be contained in a bar code object, graphics object, image object, or object container object. Alternatively, it could be an Include Object (IOB) structured field or a Preprocess Presentation Object (PPO) structured field with an incorrect mapping option triplet.

System action: PSF stops processing the current page; then tries to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set. If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS279I A REQUESTED FONT RESOURCE IS NOT CURRENTLY RESIDENT IN THE PRINTER, OR THE CORRECT PRINTER FONT CARD IS NOT INSTALLED. THE HOST VERSION OF THE FONT IS NOT DOWNLOADABLE SINCE IT DOES NOT CONTAIN RASTER DATA.

Explanation: Some printers might have user-installable fonts on cards or some other media. To support formatting output on the host system for printing with these restructured fonts, the host font libraries might contain font resources with only formatting reference information, but no downloadable font patterns. This message might indicate that the referenced fonts were not installed in the printer when this data set was printed.

Bytes 17-19 of the Font Control (FNC) structured field contain a Pattern Data Count of 0. This value represents the total number of data bytes in the font character set. The FNC structured field is in the font character set.

System action: PSF cannot print the current page, but it attempts to find the end of that page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User response: If the print request was submitted to a 4028 Printer, verify that the correct font cartridge was loaded in the printer when the job was processed. If it was not, resubmit the print request when the correct cartridge is loaded.

If the correct cartridge was loaded, or if you were printing on any other type of AFP printer, notify your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem. Run APSRMARK and mark the font as PUBLIC, so that the data set can be printed with the printer-resident font. If the font has been marked as PUBLIC, verify that the marking is correct.

Ensure that both the code page and character set of the font are marked PUBLIC. In the font data definition referenced by the FONTDD parameter in the PSF PRINTDEV statement, ensure that the font libraries containing marked resources are specified first in the library concatenation order.

Ensure that requested font or symbol set is mapped to a valid GRID. If the current entry seems to be valid, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 13, 17, 19.

APS280I THE RESOLUTION OF THE FONT DOES NOT AGREE WITH THE RESOLUTION OF THE DEVICE.

Explanation: Either the font resolution is incompatible with the device resolution or bytes 4–9, or bytes 22–27 were specified incorrectly in a Font Control (FNC) structured field. The FNC structured field is in the font character set.

System action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page or if printing an interrupt message page or message data set, PSF stops printing the data set. If printing an interrupt message page or message data set, PSF releases the current data set back to JES and requests that it be held by the system.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: Determine whether the font required any preprocessing to match the resolution of the device; if so, ensure that this was done. For more information about converting 240-pel fonts to 300-pel fonts, refer to *PSF for z/OS: Customization*. If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: Correct the resolution specified for this printer in the Printer Inventory or on the PRINTDEV statement for this printer if needed.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 13, 17, 19.

APS281I THE VERTICAL POINT SIZE VALUE IN THE FND STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The vertical point size value in the FND structured field is either not valid or not supported by this printer. PSF supports only values between 40 and 720 inclusive. The FND structured field is in the font character set.

System action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the

end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS282I INCORRECT CHARACTER PATTERN ADDRESSES IN THE FNM REPEATING GROUPS.

Explanation: Bytes 4–7 of the Font Patterns Map (FNM) structured field contain the pattern data address. This value represents the offset in bytes of the start of the raster pattern for a character.

System action: PSF cannot print the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF prints additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer. If the font is a metric-only font supplied by IBM, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for*

z/OS: Customization for assistance in determining the source of the problem. Run APSRMARK and mark the font as PUBLIC, to allow printing with the printer-resident font. If the font has been marked as PUBLIC, verify that the marking is correct.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 13, 17, 19.

APS283I MEDIUM MAP *medium map name* **IN A FORMDEF RESOURCE REQUESTED N_UP** *n***, BUT IT IS NOT SUPPORTED BY THIS PRINTER. THE OUTPUT IS PRINTED N_UP** *m***.**

Explanation: The Medium Modification Control (MMC) structured field requested N_UP *n*, but the device does not support N_UP printing or it does not support *n* pages on a sheet side.

System action: PSF continues printing the output in the highest N_UP supported by the printer.

User response: If the output is not acceptable, submit the print request to a printer that supports N_UP printing with *n* pages per sheet side. If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. For more information about the structured field, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference*. If the MMC structured field has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. Verify that the printer microcode level supports N_UP printing. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS284I A FORMDEF RESOURCE REQUESTED DUPLEX N_UP *n***, BUT THE COMBINATION IS NOT SUPPORTED BY THIS PRINTER. THE OUTPUT IS PRINTED SIMPLEX N_UP** *n***.**

Explanation: The Medium Modification Control (MMC) structured field requested N_UP *n* and duplexing, but the combination is not supported by this printer.

System action: PSF continues printing the output in simplex and the highest N_UP supported by the printer.

User response: If the output is not acceptable, submit the print request to a printer that supports N_UP printing and duplex. If the printer supports duplexing and N_UP, and if you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. For more information about the structured field, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference*. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. Verify that the printer microcode level supports N_UP printing. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS285I DATA IN A FORMDEF RESOURCE IS NOT VALID: THE N_UP VALUE IN THE MMC STRUCTURED FIELD, ID *identifier***, IS NOT ACCEPTABLE.**

Explanation: The Medium Modification Control (MMC) structured field specifies an N_UP value of zero.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to created the structured fields for the MMC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS286I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDES CONFLICTING N_UP VALUES.

Explanation: The Medium Copy Count (MCC) structured field refers to one or more Medium Modification Control (MMC) structured fields, which include requests for different N_UP values. You cannot request different N_UP values within the same medium map. The MCC and MMC structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for

the form definition, correct the MMC structured field and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS287I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE MEDIUM MAP CONTAINS A PMC STRUCTURED FIELD, BUT THE PRINTER DOES NOT SUPPORT PAGE OVERLAYS.

Explanation: The Page Modification Control (PMC) structured field specifies page overlays to be used in conjunction with N_UP processing. This error occurs when PSF finds a PMC structured field in a medium map, and the device does not support page overlays. PSF detected this error while processing a page.

System action: PSF ignores the page overlays and continues processing.

User response: Redirect the output to a printer that supports page overlays.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 3, 8, 13, 17.

APS288I   PRINT LABELING WAS SPECIFIED WITH EITHER N_UP OR CUT-SHEET EMULATION. THIS COMBINATION IS NOT SUPPORTED.

Explanation: The print labeling function has been requested, and either medium map specifies an N_UP value greater than one, or the Cut-Sheet Emulation function is being used with the current medium map. Print labeling cannot be used with a function that requests placing multiple logical pages on a side of a sheet. PSF detected this error while processing a page.

System action: PSF stops processing and printing the data set.

User response: Do not request print labeling in combination with either N_UP printing or Cut-Sheet Emulation printing in the same job. Submit the print job again.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS289I	DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE FONT SCALING SIZE VALUE SPECIFIED IN AN MCF STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The value specified for either the font vertical scale factor, the horizontal scale factor, or the font width is not within the acceptable range of 0 to 32767.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS290I	THE SELECTABLE MEDIUM MODIFICATION (*identifier*) SPECIFIED IN THE MMC STRUCTURED FIELD IS NOT CURRENTLY AVAILABLE AT THE DEVICE.

Explanation: The Selectable Medium Modification ID in the Medium Modification Control (MMC) structured field contains a Modification ID not currently available at the printer, or the printer does not support medium modifications. The MMC structured field is in the form definition.

System action: PSF stops processing and printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: To receive the printed output with the medium modification identified, take any one of these actions:

- Specify the FORMS keyword on the OUTPUT statement of the JCL with a parameter as determined by local procedures.
- Request to the operator that the identified medium modifications be made available on the printer.
- Submit the job to a printer containing the identified medium modification.

If the medium modification identified is not what you wanted, take either of these actions:

- Specify a form definition containing a different medium modification, or none at all.
- Modify the form definition to require a different medium modification ID, or remove the use of the medium modification ID.

System programmer response: If this message displays on the operator's console, use the information provided in the Operator Response section. If the Medium Modification is not what you wanted, modify the PSF writer procedure as described in the User Response section.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the Medium Modification ID is defined for a separator page or the message data set in the PSF startup procedure. If the Medium Modification ID cannot be made available on the printer at all times, consult your system programmer.

To determine how to make the determined Medium Modification ID available for use, refer to the operator's manual for your printer or your post-processing device.

Problem determination: None.

APS291I **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDES CONFLICTING SELECTABLE MEDIUM MODIFICATION CONTROL VALUES.**

Explanation: Multiple MMC structured fields referenced by the MCC structured field do not use the exact same set of Selectable Medium Modification values.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS292I **A FORMDEF RESOURCE REQUESTED ENHANCED N_UP, BUT IT IS NOT SUPPORTED BY THIS PRINTER.**

Explanation: Enhanced N_UP is not supported due to one of these:

- The Page Position (PGP) Format 2 structured field requested enhanced N_UP, but N_UP is not supported by this printer.

- The printer supports enhanced N_UP but was attached through Distributed Print Facility (DPF) and enhanced N_UP is not supported through DPF.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set. PSF releases the current data set to JES and requests the system to hold it unless PRTERROR=QUIT is specified on the OUTPUT statement.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: Resubmit the job to a printer that supports enhanced N_UP and that is not attached through DPF; or, if you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. Verify that the printer microcode level supports enhanced N_UP printing and that the printer is not attached through DPF. If the resource containing the error is defined for the separator pages or the message data set, or as the default resource for user print data sets in the PSF startup procedure, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS293I **DATA IN A FORMDEF RESOURCE IS NOT VALID: ENHANCED N_UP WAS REQUESTED, BUT THE NUMBER OF REPEATING GROUPS IN THE PGP STRUCTURED FIELD DOES NOT MATCH THE N_UP VALUE SPECIFIED**

IN MEDIUM MAP *medium map name*.

Explanation: When enhanced N_UP is requested, the number of repeating groups in the Page Position (PGP) Format 2 structured field must match the N_UP value multiplied by the number of sides of the sheet to be printed. If simplex is requested, the number of repeating groups in the PGP structured field must be equal to the value specified in the N_UP request. If duplex is requested, the number of repeating groups in the PGP structured field must be equal to twice the value specified in the N_UP request. To request enhanced N_UP, specify explicit page placement in the PGP structured field and specify N_UP in the Medium Modification Control (MMC) structured field. The simplex/duplex request is in the MMC structured field. The MMC and PGP structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS294I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SHEET SIDE PARAMETER VALUE *value* **SPECIFIED IN THE PGP STRUCTURED FIELD IS NOT ACCEPTABLE.**

Explanation: A medium map or Document Environment Group in the current form definition contains a Page Position (PGP) Format 2 structured field with a repeating group that contains an incorrect value in the sheet side (*SHside*) parameter. For example:

- The *SHside* parameter specifies a value other than zero or one for the sheet side.
- The *SHside* parameter specifies a value greater than four for the partition number.

The PGP structured field is in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

SF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS295I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE PGP STRUCTURED FIELD SPECIFIES BOTH DEFAULT AND EXPLICIT PAGE PLACEMENT.

Explanation: A medium map or Document Environment Group in the current form definition contains a Page Position (PGP) Format 2 structured field that requests both default page placement and explicit page placement in separate, repeating groups. Default page placement and explicit page placement are requested in the sheet side (*SHside*) parameter of the PGP structured field. The PGP structured field is in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS296I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE PGP STRUCTURED FIELD CONTAINS AN INCORRECT ROTATION, *rotation***.**

Explanation: A medium map or Document Environment Group in the current form definition

contains a Page Position (PGP) Format 2 structured field with a repeating group that contains an incorrect value in the page rotation (*PGorient*) parameter. The PGP structured field is in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS297I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SHEET SIDE PARAMETER VALUE OF THE PGP STRUCTURED FIELD DOES NOT MATCH THE SIMPLEX/DUPLEX OR N_UP SPECIFICATION IN MEDIUM MAP *medium map name***.**

Explanation: A medium map or Document Environment Group in the current form definition contains a Page Position (PGP) Format 2 structured field with a repeating group that contains an incorrect value in the sheet side (*SHside*) parameter. For example:

- The *SHside* parameter value specifies that a page should be placed on the back side of the sheet, but the Medium Modification Control (MMC) structured field specifies simplex.
- The *SHside* parameter value specifies that a page should be placed in partition number 3, but the MMC specifies 2-up format.

The MMC and PGP structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS298I   **A FORMDEF RESOURCE REQUESTED ENHANCED N_UP AND DUPLEXING, BUT DUPLEXING IS NOT SUPPORTED BY THIS PRINTER OR BY THE INPUT BIN THAT WAS BEING USED.**

Explanation: When enhanced N_UP and duplex are requested, but the printer or the selected input bin does not support duplex, PSF cannot process the data set. The reason is that with enhanced N_UP, the Page Position (PGP) Format 2 structured field specifies the

partition number and sheet side for each page placed on a sheet. If duplex is requested, PSF is not able to place pages in the requested partitions on the back side of the sheets. To request enhanced N_UP, specify explicit page placement in the PGP structured field and specify N_UP in the Medium Modification Control (MMC) structured field. The duplex request is in the MMC structured field. The MMC and PGP structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set. PSF releases the current data set to JES and requests the system to hold it.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: To receive the printed output with the requested enhanced N_UP and duplex, ask your print operator to reroute the data set to a printer that supports both.

If the enhanced N_UP and duplex request is not what you wanted, do one of these:
- Ask your print operator to use a different form definition for the data set and then release the data set for printing.
- Specify a different form definition and resubmit the print request; then, ask your print operator to purge your previous print request, which was held.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If you are running under Job Entry Subsystem (JES), use JES commands to release the data set to a printer that supports enhanced N_UP and duplex functions. Refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* for information about the JES commands that release the data set for printing.

If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS299I   AN IM IMAGE OBJECT CONTAINS DATA THAT IS NOT VALID OR IS INCORRECT. THE IM IMAGE OBJECT CANNOT BE CONVERTED TO AN IO IMAGE OBJECT.

Explanation: This message is issued when PSF converts an IM image object to an IO image object and one of the image size values is zero or greater than X'7FFF'.

For a simple IM image object, this message is issued if either the *XSize* or the *YSize* parameter value of the IID structured field is zero or greater than X'7FFF'.

For a complex IM image object, this message is issued if one of the *XCSize*, *YC Size* , *SFilSize*, or *YFilSize* parameter values of the ICP structured field is zero or greater than X'7FFF'.

System action: PSF stops processing the image object and issues additional messages identifying the processing environment in which the error occurred. PSF sends the part of the image that was successfully processed, if any, to the printer. PSF then continues processing the current data set.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer that this error occurred.

Problem determination: Items 13, 17, 19.

APS300I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE NEXT LINE DESCRIPTOR IF SKIPPING PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* **IS 0.**

Explanation: The current record contains a control character that indicates a skip to a Line Descriptor (LND) structured field with a specific channel control. However, the LND structured field identified in this

message had a value of 0 in its Next Line Descriptor IF SKIPPING parameter. The LND structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the object container that contains the error, verify that the input to that program was valid. If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS301I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE NEXT LINE DESCRIPTOR IF SKIPPING PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER *structured field number* **IS** *parameter value*. **THIS EXCEEDS THE LNC STRUCTURED FIELD COUNT VALUE OF** *parameter value*.

Explanation: In the Line Descriptor (LND) structured field identified in this message, the value of the next LND IF SKIPPING parameter is greater than the total number of LND structured fields in the page definition.

System action: PSF stops processing the current data set and issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data*

Reference for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS307I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: IN LND STRUCTURED FIELD NUMBER *structured field number*, **THE REUSE RECORD FLAG WAS SET BUT THE NEXT LINE DESCRIPTOR IF REUSING DATA PARAMETER WAS 0.**

Explanation: In the Line Descriptor (LND) structured field identified in this message, the Reuse Record flag had a value of B'1', indicating that the line data being processed in this LND structured field should be reused and processed. The Next Line Descriptor If Reusing Data parameter should point to the LND structured field used to continue processing. However, the value for the Reusing Data parameter was X'0000', indicating the end of the chain. The LND structured field is contained in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS308I   THE PRINTABLE AREA IS TOO SMALL TO PRINT MESSAGES WITH THE FONT SPECIFIED.

Explanation: A check was made to determine whether the messages would fit in the printable area when printed in the specified font on the paper size currently in the printer. Either fewer than 10 characters would fit on a line, or PSF calculated an incorrect value for the maximum baseline position. The values for the maximum baseline position are obtained from the printer; an incorrect value could indicate a microcode error that would cause PSF not to print messages. A value of fewer than 10 characters per line is too small and would also cause PSF not to print messages.

System action: The messages were not printed.

User response: Inform your system programmer that this error occurred.

System programmer response: If messages are to be printed, select a form, a logical page size, and a font with a character increment that allows messages to fit in the printable area. The form definition or page definition selected to process messages might be incorrect, or the font selected might be too large for the page size specified in the form definition or the page definition.

To determine the number of characters that fit on a line, determine the minimum width of either the logical page or the printable area on the physical page. From it, subtract the maximum inline position of the Line Descriptor (LND) structured field, and the form definition offset, plus twice the horizontal adjustment. Divide the result by the character increment for the font.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 27.

APS309I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE REPEATING GROUP LENGTH PARAMETER VALUE IN CCP STRUCTURED FIELD *CCP identifier* **IS NOT VALID.**

Explanation: The Conditional Processing Control (CCP) structured field has an incorrect value. Either the Length of Repeating Groups parameter is zero, or the length of the repeating group data is not a multiple of the size specified in that parameter. The CCP structured field is in the page definition.

System action: PSF stops processing the current data

set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: Determine whether the structured field is correct. For more information about the structured field, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field is incorrect and was not created by an IBM licensed program, correct the error and resubmit the print request. If the structured field is incorrect and was created by an IBM licensed program, notify your system programmer. If the structured field is correct, the error could be a PSF logic error. In this case, notify your system programmer of this error.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS310I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE COUNT PARAMETER VALUE IN THE LNC STRUCTURED FIELD WAS 0.

Explanation: The Count parameter in the Line Descriptor Count (LNC) structured field in the data map of the page definition had a value of zero.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to*Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF*

for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS312I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE SIZE PARAMETER VALUE IN THE FDS STRUCTURED FIELD WAS 0.

Explanation: The Size parameter in the Fixed Data Size (FDS) structured field has a value of 0. The FDS structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS314I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE NUMBER OF REPEATING GROUPS PARAMETER VALUE IN CCP STRUCTURED FIELD *CCP identifier* IS NOT VALID.

Explanation: The Conditional Processing Control (CCP) structured field has an incorrect value. Either the Number of Repeating Groups parameter in the CCP structured field is zero, or the number of repeating

groups does not match the number specified in the parameter. The CCP structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS315I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE NEXT LINE DESCRIPTOR IF SPACING PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER** *structured field number* **IS 0.**

Explanation: The logical-record control character indicates that the Next Line Descriptor If Spacing parameter should be followed. However, in the Line Descriptor (LND) structured field identified in this message, the Next Line Descriptor If Spacing parameter value was zero. The LND structured field is contained in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF

logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS316I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE NEXT LINE DESCRIPTOR IF SPACING PARAMETER IN LND STRUCTURED FIELD NUMBER** *structured field number* **IS** *parameter value*. **THIS VALUE IS TOO LARGE.**

Explanation: The logical record control character indicates that the Next Line Descriptor If Spacing parameter in the Line Descriptor (LND) structured field should be followed. However, in the Line Descriptor (LND) structured field identified in this message, the Next Line Descriptor If Spacing parameter value was greater than the total number of line descriptors in the data map. The LND structured field is contained in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS317I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE LENGTH OF COMPARISON STRING PARAMETER VALUE IN CCP STRUCTURED FIELD *CCP identifier* **IS NOT VALID.**

Explanation: The Conditional Processing Control (CCP) structured field has an incorrect value. Either the Length of Comparison String parameter is zero, or the length of the comparison string data does not match the length of a repeating group minus the fixed lengths of the remaining fields of the repeating group. The CCP structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS319I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: LND, RCD, OR XMD STRUCTURED FIELD NUMBER *structured field number* **HAS A NULL VALUE SPECIFIED IN THE SUPPRESSION TOKEN NAME PARAMETER. A NULL VALUE IS NOT VALID.**

Explanation: The Suppression Token Name parameter in the Line Descriptor (LND), Record Descriptor (RCD), or XML Descriptor (XMD) structured field in the page definition has a null value. A null value is any value that contains X'FFFF' in the first two bytes.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS320I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE IDENTIFIER *identifier1* **SPECIFIED IN THE NEXT CCP IDENTIFIER PARAMETER IN CCP STRUCTURED FIELD** *identifier2* **WAS NOT FOUND.**

Explanation: The Conditional Processing Control (CCP) structured field has an incorrect value. The Next Conditional Processing Control Identifier parameter in the CCP structured field specifies the identifier used to find a CCP if the CCP structured fields are chained. The identifier must match a value specified in the CCP Identifier parameter of another CCP in the same page definition. The identifier specified in the Next CCP Identifier parameter did not match the CCP Identifier of any CCPs in the page definition. The CCP structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS321I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE TIMING OF ACTION PARAMETER VALUE *value* **IN CCP STRUCTURED FIELD** *CCP identifier* **IS NOT VALID.**

Explanation: The Conditional Processing Control (CCP) structured field has an incorrect value. The Timing of Action parameter in one of the repeating groups of the CCP structured field contains an incorrect value. The CCP structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be

initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS322I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE MEDIUM MAP ACTION PARAMETER VALUE *value* **IN CCP STRUCTURED FIELD** *CCP identifier* **IS NOT VALID.**

Explanation: The Conditional Processing Control (CCP) structured field has an incorrect value. The Medium Map Action parameter in one of the repeating groups of the CCP structured field contains an incorrect value. The CCP structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS323I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE DATA MAP ACTION PARAMETER VALUE *value* **IN CCP STRUCTURED FIELD** *CCP identifier* **IS NOT VALID.**

Explanation: The Conditional Processing Control (CCP) structured field has an incorrect value. The Data Map Action parameter in one of the repeating groups of the CCP structured field contains an incorrect value. The CCP structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the

processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS324I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE COMPARISON PARAMETER VALUE** *value* **IN CCP STRUCTURED FIELD** *CCP identifier* **IS NOT VALID.**

Explanation: The Conditional Processing Control (CCP) structured field has an incorrect value. The Comparison parameter in one of the repeating groups of the CCP structured field contains an incorrect value. The CCP structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF*

for z/OS: Diagnosis for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS326I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE DATA MAP '** *data map name***' SPECIFIED IN THE DATA MAP NAME PARAMETER OF CCP STRUCTURED FIELD** *CCP identifier* **WAS NOT FOUND.**

Explanation: The Conditional Processing Control (CCP) structured field has an incorrect value. The Data Map Name parameter in one of the repeating groups of the CCP structured field specifies the token name of a data map used to find a data map in the page definition. The name must match the value specified in the Token Name parameter in one of the Begin Data Map (BDM) structured fields in the current page definition. No data map with name *data map name* was found in the page definition. The CCP structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS327I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE NEXT LINE DESCRIPTOR IF REUSING DATA PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER** *structured field number* **WILL CAUSE AN INFINITE LOOP.**

Explanation: The Next Line Descriptor If Reusing Data parameter in the Line Descriptor (LND) structured field identified in this message caused an infinite-loop condition. The LND structured field is contained in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS328I **DATA IN A FORMDEF RESOURCE IS NOT VALID: MEDIUM MAP** *medium map name* **SPECIFIES A CONDITIONAL EJECT TO A PARTITION, BUT THE PARTITION DOES NOT EXIST.**

Explanation: The Begin Medium Map (BMM) structured field specified a conditional eject to a partition that does not exist in the Page Position (PGP) Format 2 structured field. The BMM structured field specified either a conditional eject to the next front side partition or a conditional eject to the next back side partition, but the PGP structured field does not contain a repeating group specifying a partition on the requested side. The BMM and PGP structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS329I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE NEXT LINE DESCRIPTOR IF REUSING DATA PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER** *structured field number* **IS** *parameter value1*. **THIS EXCEEDS THE LNC STRUCTURED FIELD COUNT VALUE OF** *parameter value2*.

Explanation: The Next Line Descriptor If Reusing Data parameter in the Line Descriptor (LND) structured field identified in this message has an incorrect value. The value is greater than the Count parameter in the Line Descriptor Count (LNC) structured field in the current data map. The LNC and LND structured fields are in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS330I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: WHEN THE DATA START POSITION VALUE IS ADDED TO THE DATA LENGTH VALUE IN LND, RCD, OR XMD STRUCTURED FIELD NUMBER** *structured field number*, **IT EXCEEDS THE FDS STRUCTURED FIELD SIZE VALUE OF** *parameter value*.

Explanation: The Use Fixed Data flag in byte 0 in the Line Descriptor (LND) structured field, in byte 11 in the Record Descriptor (RCD) structured field, or in byte 1 in the XML Descriptor (XMD) was set to B'1'. This indicates that data from Fixed Data Text (FDX) structured fields is to be added to the data placed within the page by the LND, RCD, or XMD structured field. The FDX, XMD, RCD and LND structured fields are in the page definition.

The Data Start Position parameter in the LND, RCD, or XMD structured field indicates the offset of the first byte of data. The Data Length parameter specifies how many bytes of FDX are to be placed within the page. This error was caused when these two parameters specified more data than the FDX structured fields contain. The number of bytes of data in the FDX structured fields can be found in the Size parameter of the Fixed Data Size (FDS) structured field.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS331I   **A FORMDEF RESOURCE SPECIFIES PAGE ROTATION IN THE PGP STRUCTURED FIELD, BUT PAGE ROTATION IS NOT SUPPORTED BY THE PRINTER. THE PAGE ROTATION IS IGNORED.**

Explanation: A medium map or Document Environment Group in the current form definition contains a Page Position (PGP) Format 2 structured field with a repeating group that requests page rotation in the *PGorient* parameter, but the printer does not support page rotation.

System action: The page rotation is ignored, and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: Submit the job to a printer that supports page rotation; or, if you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

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Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS334I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE AMOUNT OF FIXED DATA RECEIVED DID NOT AGREE WITH THE VALUE SPECIFIED IN THE FDS STRUCTURED FIELD SIZE PARAMETER.**

Explanation: The Fixed Data Text (FDX) structured field more bytes of data than was specified in the Size parameter of the Fixed Data Size (FDS) structured field. The FDS and FDX structured fields are in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS335I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE MEDIUM MAP '***medium map name***' SPECIFIED IN THE MEDIUM MAP NAME PARAMETER OF CCP STRUCTURED FIELD** *CCP identifier* **WAS NOT FOUND.**

Explanation: The Conditional Processing Control (CCP) structured field has an incorrect value. The

Medium Map Name parameter in one of the repeating groups of the CCP structured field specifies the token name of a medium map used to find a medium map in the form definition. The name must match the value specified in the Token Name parameter in one of the Begin Medium Map (BMM) structured fields in the current form definition. No medium map with name *medium map name* was found in the form definition. The CCP structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS337I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: IN LND, RCD, OR XMD STRUCTURED FIELD NUMBER** *structured field number***, THE CONDITIONAL PROCESSING FLAG WAS SET BUT THE CONDITIONAL PROCESSING CONTROL IDENTIFIER WAS ZERO.**

Explanation: In the Line Descriptor (LND), Record Descriptor (RCD), or XML Descriptor (XMD) structured field, the Conditional Processing flag had a value of B'1', indicating that the line data to be processed by this LND, RCD, or XMD structured field is to be compared with a value specified in a Conditional Processing Control (CCP) structured field. The CCP Identifier parameter in the LND, RCD, or XMD structured field is used to find one of the CCP structured fields in the current page definition. This parameter was set to 0, which is not a valid value if the Conditional Processing flag is on. The LND, RCD, XMD, and CCP structured fields are in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS339I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE IDENTIFIER** *identifier* **SPECIFIED IN THE CONDITIONAL PROCESSING CONTROL IDENTIFIER PARAMETER IN LND, RCD, OR XMD STRUCTURED FIELD NUMBER** *structured field number* **WAS NOT FOUND.**

Explanation: In the Line Descriptor (LND), Record Descriptor (RCD), or XML Descriptor (XMD) structured field, the Conditional Processing flag had a value of B'1', indicating that the line data to be processed by this LND, RCD, or XMD structured field is to be compared with a value specified in a Conditional Processing Control (CCP) structured field. The CCP Identifier parameter in the LND, RCD, or XMD structured field is used to find one of the CCP structured fields in the current page definition. However, the identifier specified in *identifier* does not match the value specified in the CCP Identifier parameter in any of the CCP structured fields in the current page definition. The LND, RCD, XMD and CCP structured fields are in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for

the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS340I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE NEXT LINE DESCRIPTOR IF CONDITIONAL PROCESSING PARAMETER VALUE IN LND, RCD, or XMD STRUCTURED FIELD NUMBER** *structured field number* **IS** *value1*. **THIS EXCEEDS THE LNC STRUCTURED FIELD COUNT VALUE OF** *value2*.

Explanation: The Next Line Descriptor If Conditional Processing parameter in the Line Descriptor (LND), Record Format Descriptor (RCD), or XML Descriptor (XMD) structured field has an incorrect value. The value is greater than the Count parameter in the Line Descriptor Count (LNC) structured field in the current data map. The LNC, LND, RCD and XMD structured fields are in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that

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program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS342I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE NEXT LINE DESCRIPTOR IF CONDITIONAL PROCESSING PARAMETER VALUE IN LND, RCD, OR XMD STRUCTURED FIELD NUMBER** *structured field number* **WILL CAUSE AN INFINITE LOOP.**

Explanation: The Next Line Descriptor If Conditional Processing parameter in the Line Descriptor (LND), Record Format Descriptor (RCD), or XML Descriptor (XMD) structured field caused an infinite-loop condition. The LND, RCD, and XMD structured fields are in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS343I **DATA IN AN INPUT RECORD OR PAGEDEF RESOURCE IS NOT VALID: RELATIVE POSITIONING PLACED DATA OUTSIDE THE LOGICAL PAGE IN THE NEGATIVE Y DIRECTION. THE PRIOR AND CURRENT LND, RCD, OR XMD STRUCTURED FIELD NUMBERS ARE:** *structured field number1* **AND** *structured field number2*.

Explanation: When relative positioning is being used on a Line Descriptor (LND), Record Descriptor (RCD), or XML Descriptor (XMD) structured field, the relative position specified for the Y direction can be a negative value. The current LND, RCD, or XMD (*structured field number2*) is trying to position data outside of the logical page using a negative value. The prior LND, RCD, or XMD position (*structured field number1*) defines the baseline position from which the relative offset of the current LND, RCD, or XMD is measured.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS344I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE NUMBER OF LND OR RCD STRUCTURED FIELDS DOES NOT MATCH THE VALUE SPECIFIED IN THE LNC STRUCTURED FIELD.**

Explanation: The number of Line Descriptor (LND) or Record Descriptor (RCD) structured fields found in a page definition is either greater than or less than the value specified in the Line Descriptor Count (LNC) structured field. The LND, RCD, and LNC structured

fields are in the page definition.

System action: PSF stops processing the current data set and issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS345I   MESSAGE ID = *message identifier* **EXCEEDS MAXIMUM LENGTH. RECORD SEQUENCE NUMBER =** *sequence number***.**

Explanation: The length of the message text for the message ID is greater than the maximum message length of 1000 bytes.

System action: The message is printed to the length limit. Processing of the data set continues.

User response: No response is necessary.

System programmer response: If you suspect a PSF logic error, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS346I   DATA IN AN INPUT RECORD OR PAGEDEF RESOURCE IS NOT VALID: A SKIP TO A NONEXISTENT CHANNEL = *channel* **ON RECORD NUMBER =** *record number* **WAS DETECTED WITHIN THE LND STRUCTURED FIELDS. OUTPUT WAS FORCED TO SINGLE SPACING, WHICH MAY CAUSE BLANK PAGES.**

Explanation: An attempt was made to skip to a channel not defined in the current data map. The Line Descriptor (LND) structured fields in the page definition are not valid. During scanning, the entire Next Line Descriptor If Skipping parameter could not be followed because the End Page If Skipping flag was set in a LND structured field. This created an infinite loop on the same input record. The LND structured field is in the page definition.

System action: The record containing the error was forced to single spacing. When forced single spacing occurs, the carriage control character on the record is ignored. The record is treated as if a X'09' machine control character or a X'40' (blank) ANSI control character was specified in the record that caused the error. The record number specified is relative to the input data stream and can be different for multiple transmissions of the data set.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print error messages. Notify your system programmer.

Problem determination: Items 2, 17, 27.

APS347I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: A DXD STRUCTURED FIELD CONTAINS AN INCORRECT PARAMETER VALUE.

Explanation: The Data Map Transmission Subcase Descriptor (DXD) structured field does not contain a value of X'000100FF'. The DXD structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS350I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: IN LND OR RCD STRUCTURED FIELD NUMBER *structured field number*, THE SHIFT-OUT CODED FONT LOCAL IDENTIFIER WAS NON-ZERO BUT THE GENERATE FONT CHANGE FLAG WAS NOT SET.

Explanation: In the Line Descriptor (LND) or Record Descriptor (RCD) structured field identified in this message, the Shift-out Coded Font Identifier was nonzero. The Generate Font Change flag should be set to indicate that the Primary Coded Font Local Identifier should be used whenever a shift-in code is processed. However, the Generate Font Change flag had a value of B'0'. The LND or RCD structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS352I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: BAR CODE GENERATION WAS REQUESTED ON LND, RCD, OR XMD STRUCTURED FIELD NUMBER *structured field number*, BUT THE PRINTER DOES NOT SUPPORT BAR CODE OBJECTS.

Explanation: A Line Descriptor (LND), Record Descriptor (RCD) or XML Descriptor (XMD) structured field in a page definition has requested PSF to generate a bar code object from the line data, but the printer does not support bar code objects.

System action: PSF ignores the request and continues processing the data set.

User response: To print the data set and have PSF generate bar code objects, submit the print job to a printer that supports bar code objects. For more information about AFP printers that support bar code objects, refer to *Printer Information*.

System programmer response: If the page definition is for a separator page, the message data set, or the default page definition for the user print data sets defined in the PSF startup procedure, delete the option from the page definition that requests that a bar code be generated.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Notify your system programmer.

Problem determination: None.

APS353I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE DATA LENGTH PARAMETER VALUE IN LND STRUCTURED FIELD NUMBER** *structured field number* **DOES NOT MATCH THE LENGTH OF COMPARISON STRING PARAMETER VALUE IN CCP STRUCTURED FIELD** *CCP identifier*.

Explanation: In the Line Descriptor (LND) structured field, the value of the Data Length parameter is used in identifying the field of the current input record for which Conditional Processing is to performed. This field is to be compared with the Comparison String specified in the Conditional Processing Control (CCP) structured field. In the data set you submitted, however, the length specified in the Data Length parameter in the LND structured field does not match the length specified in the Length of Comparison String parameter of the CCP structured field. The LND and CCP structured fields are in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS355I   **DATA IN PAGEDEF RESOURCE IS NOT VALID: A PAGE OVERLAY WAS REQUESTED IN LND OR RCD STRUCTURED FIELD NUMBER** *structured field number*, **BUT THE PRINTER DOES NOT SUPPORT PAGE OVERLAYS.**

Explanation: An overlay has been requested by a

Line Descriptor (LND) or Record Descriptor (RCD) structured field within the page definition, but the printer does not support page overlays.

System action: PSF stops processing the page and continues processing the data set.

User response: To print the data set containing the page overlay, submit the print job to a printer that supports page overlays. For more information about AFP printers that support page overlays, refer to *Printer Information*.

System programmer response: If the page definition is for a separator page, the message data set, or the default page definition for the user print data sets defined in the PSF startup procedure, delete the page overlay from the page definition.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS360I   **AN OUTPUT BIN WAS REQUESTED FOR THE JOB, BUT EITHER THE PRINTER DOES NOT SUPPORT BIN SPECIFICATION OR THE BIN SPECIFIED WAS NOT AVAILABLE. THE PRINTER DEFAULT BIN WAS USED.**

Explanation: The output bin specified by the OUTBIN keyword on the JCL OUTPUT statement or in the form definition is not available, or the device does not support the specification of an output bin.

System action: PSF continues processing, sending paper to the printer default output bin.

User response: If the output is not acceptable, submit the print request to a printer that supports the specification of an output bin and has the output bin available, or ensure that the bin is enabled on the original printer before resubmitting the print request.

System programmer response: Inform your system programmer that this error occurred.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 2, 8, 19.

APS361I   **THE INPUT BIN WITH COMPONENT ID** *component_id*, **MEDIA NAME** *media_name*, **BIN NUMBER** *bin_number* **IS NOT SUPPORTED OR NOT ENABLED ON THE PRINTER. MEDIA FIDELITY REQUESTED THE JOB TO BE TERMINATED WITH NO ALTERNATE BIN SUBSTITUTION.**

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Explanation: The Medium Modification Control (MMC) structured field specified a media selection that does not exist on the selected printer or is not enabled. A value of *** for any of the three values means that piece of information was not provided by the MMC structured field. The input bin is selected by a media-source selector keyword with or without media-type local ID keywords in the MMC structured field. The media-type local ID keywords specify the ID of a Map Media Type (MMT) structured field that contains an Object Identifier (OID) with or without a Media Name. The MMC and MMT structured fields are in the form definition.

System action: Processing of the current data set is ended.

User response: Submit the print request to a printer that supports the specified media selection. If you want to use the original printer, and if you created the structured fields for the form definition, specify a supported bin in the MMC structured field. For more information about the MMC structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field contains the component ID, media name, or number of a supported bin, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, ensure that the input to that program specified a supported bin. If it did, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 17, 19.

APS362I   SYSTEM ACTION TAKEN: THE ERRORS LISTED OCCURRED DURING THE PROCESSING OF INLINE RESOURCES. PROCESSING OF THE DATA SET WAS TERMINATED.

Explanation: This message is issued in addition to a message describing an error that occurred during the processing of an inline resource. Other error messages issued by PSF describe the precise error condition.

System action: PSF stops processing and printing the data set.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Problem determination: Items 2, 17.

APS363I   MULTIPLE COPIES OF THE MESSAGE DATA SET WERE REQUESTED FROM DIFFERENT INPUT BINS BUT THE BIN ATTRIBUTES DID NOT MATCH.

Explanation: PSF guarantees that at least the first ten characters of each message are printed on the message page through a special message formatting routine. If multiple copies of message pages are printed from different input bins, and each input bin being used has different attributes such as paper length, paper width, x-extent, y-extent, x-offset, y-offset, or media type (envelope, manual, or normal), PSF cannot guarantee that the first ten characters of each message are printed on all copies of the message page.

System action: The messages were not printed.

User response: Inform your system programmer that this error occurred.

System programmer response: If messages are to be printed, specify a form definition that specifies only a single copy of the message page, or copies from bins with attributes that are the same.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 27.

APS364I   THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INDICATES DIFFERENT SELECT INPUT SOURCE VALUES FOR THE FRONT AND BACK SIDES OF A DUPLEX SHEET.

Explanation: The Medium Modification Control (MMC) structured fields referenced by the Medium Copy Count (MCC) structured field repeating groups specify different input-source values or media-type local ID values along with either tumble or normal duplex. This results in an attempt to print the front and back sides of a sheet from different input bins.

System action: The form definition containing the error is not used, and one of these occurs:
- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS365I   **AN ENVELOPE OR MANUAL FEED INPUT BIN WITH COMPONENT ID** *componentID*, **MEDIA NAME** *media name*, **BIN NUMBER** *bin number* **WAS REQUESTED, BUT IS NOT AVAILABLE ON THE PRINTER.**

Explanation: The Medium Modification Control (MMC) structured field requested an envelope or manual feed bin, but no bins installed on the printer support the requested bin type. A value of *** for any of the three values means that piece of information was not provided by the MMC structured field. The input bin is selected by a media-source selector keyword with or without media-type local ID keywords in the MMC structured field. The media-type local ID keywords specify the ID of a Map Media Type (MMT) structured field that contains an Object Identifier (OID) with or without a Media Name. The MMC and MMT structured fields are in the form definition.

System action: Processing of the current data set is ended.

User response: If an envelope or manual feed bin is desired, submit the print request to a printer that supports the requested bin type. If you want to use the original printer without an envelope or manual feed bin, and if you created the structured fields for the form definition, do not specify an envelope or manual feed bin type. For more information about the MMC structured field, refer to *Mixed Object Document Content Architecture Reference*.

If you used a program to create the structured field for the form definition, ensure that the input to that program

specifies that you do not want an envelope or manual bin. If you did not request an envelope or manual bin in your form definition, the error might be a PSF logic error; consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS366I   **DATA IN AN INPUT RECORD OR PAGEDEF RESOURCE IS NOT VALID: THE ORIENTATION USED WITH RELATIVE POSITIONING IS DIFFERENT THAN THE LAST ORIENTATION USED FOR PRINTING. THE PRIOR AND CURRENT LND, RCD, OR XMD STRUCTURED FIELD NUMBERS ARE:** *structured field number1* **AND** *structured field number2.*

Explanation: When relative positioning is being used on a Line Descriptor (LND), Record Descriptor (RCD), or XML Descriptor (XMD) structured field, the text orientation field of the current LND, RCD or XMD (*structured field number2*) must match the text orientation of the LND, RCD or XMD (*structured field number1*) that was last used for positioning data. The prior LND, RCD or XMD position defines the baseline position from which the relative offset of the current LND, RCD or XMD is measured.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS367I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE OUTPUT OPTION SPECIFIED IN AN IOB STRUCTURED FIELD WITH RESOURCE LOCAL ID** *identifier* **IS NOT VALID OR IS UNSUPPORTED. THE IOB IS INCLUDED WITH LND, RCD, OR XMD STRUCTURED FIELD NUMBER** *structured field number***.**

Explanation: The Include Object (IOB) structured field in error contained an Output Option value that is not valid, or the printer does not support the Output Option value. The IOB is included using the Line Descriptor (LND), Record Descriptor (RCD) or XML Descriptor (XMD) structured field identified in this message. The IOB, LND, RCD and XMD structured fields are contained in the page definition.

System action: PSF stops processing the current data set and issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or for the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS368I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE RESOURCE LOCAL ID** *identifier* **SPECIFIED IN THE EXTENDED RESOURCE LOCAL ID TRIPLET ON LND OR RCD STRUCTURED FIELD NUMBER** *structured field number* **WAS NOT FOUND.**

Explanation: In the Line Descriptor (LND) or Record Descriptor (RCD) structured field, an Extended Resource Local Identifier triplet specifies a local identifier of an Include Object (IOB) structured field. This IOB structured field includes and object when the LND or RCD is used for printing. However, the local identifier specified on the LND or RCD does not match any of the IOB structured fields in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or for the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS369I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: STRUCTURED FIELD** *structured field* **HAS AN INCORRECT OBJECT CLASS VALUE IN AN OBJECT CLASSIFICATION TRIPLET.**

Explanation: The Object Classification (X'10') triplet in the structured field specified in the message has an incorrect object class value. Possible incorrect class values for each structured field are:
- Map Data Resource (MDR)
  - Non-presentation object container is included in a repeating group.

– Object container or IOCA embedded in a page or overlay has a data object font mapped in the Object Environment Group.

• Include Object (IOB) or Preprocess Presentation Object (PPO)

Non-presentation object container, data object font (DOF), or non-DOF secondary resource is specified.

System action: PSF stops processing the current page, attempts to find the end of the current page, and then tries to resume printing on the next page. If PSF cannot find the end of the page, it stops printing the data set.

If this error occurs in a resource or a page definition, PSF stops processing the data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

User response: If you created the structured field, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If you used a program to create the structured field, contact your system programmer. If the object class is valid for the structured field, this release of PSF does not support this function.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: No response is necessary.

Problem determination: Items 2, 13, 17.

APS370I **AN OUTLINE FONT WAS SPECIFIED FOR A PRINTER THAT DOES NOT SUPPORT OUTLINE FONTS.**

Explanation: A request to use an outline font code page or font character set was made to a printer that does not support outline fonts. PSF detected this error while processing a code page or a font character set.

System action:

User response: Ensure that data sets requiring outline fonts are routed to a printer model or configuration that can process them. Otherwise, do not use outline fonts.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS371I **A DOUBLE-BYTE OUTLINE FONT WAS SPECIFIED FOR A PRINTER THAT DOES NOT SUPPORT DOUBLE-BYTE OUTLINE FONTS.**

Explanation: A request to use a double-byte outline font code page or a font character set was made to a printer that does not support double-byte outline fonts. PSF detected this error while processing a code page or a font character set.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: Ensure that documents requiring double-byte outline fonts are sent to a printer that can process them. Otherwise, do not use double-byte outline fonts.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS372I **DATA IN A FONT RESOURCE IS NOT VALID: A FONT CHARACTER SET EXTENSION HAS BEEN SPECIFIED FOR A FONT THAT IS NOT A DOUBLE-BYTE OUTLINE FONT.**

Explanation: Bit 1 of byte 3 in the Font Control (FNC) structured field indicates that this font character set is an extension of an existing resident double-byte outline font, but the font technology identifier (byte 1 in the FNC structured field) is not X'1E'. PSF detected this error while processing a font character set.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the

data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS373I   DATA IN A FONT RESOURCE IS NOT VALID: THE FONT RESOLUTION SPECIFIED IN THE FNC STRUCTURED FIELD IS NOT VALID.

Explanation: The font resolution specified in bytes 22-27 of the Font Control (FNC) structured field was specified incorrectly. For an outline font, these fields must be zeros. PSF detected this error while processing a font character set.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS:*

Diagnosis for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS374I   THE HOST VERSION OF THE REQUESTED OUTLINE FONT CHARACTER SET IS NOT DOWNLOADABLE BECAUSE IT DOES NOT CONTAIN ANY FONT PATTERN DATA. IT MAY BE A METRIC-ONLY OUTLINE FONT CHARACTER SET.

Explanation: Some printers have optional font features or user-installable fonts on cards or other media. This message might indicate that the referenced font was not installed in the printer when this data set was printed.

To support printing with printer-resident fonts, the host font libraries might contain font resources with formatting information but no downloadable font pattern data. These metric-only font character sets (MOF) are used only to activate printer-resident fonts. Because of missing font data, the character set cannot be downloaded.

The pattern technology specified in byte 1 in the Font Control structured field is X'1E' or X'1F'. Bytes 28-31 in the FNC structured field contain the total number of bytes in the Font Patterns (FNG) structured field.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: Install the font on the printer, change to a font that is either installed or downloadable, or notify your system programmer of this error.

System programmer response: If the font character set is a standard IBM-supplied font, it might be a metric-only font. If so, that specific font must be resident in the printer. Verify that the font is resident in the printer being used. For example, double-byte outline (scalable) fonts generally have metric-only fonts on the host system. Double-byte outline resident fonts might be a separate printer feature. Refer to the printer publications for information on resident fonts.

If the font is resident in the printer, ensure that the character set is marked PUBLIC (by APSRMARK). In

the Data Definition referenced by the FONTDD parameter in the PSF PRINTDEV statement, ensure that the font libraries containing marked resources are specified first in the library concatenation order. If you use fonts as INLINE or USERLIB resources, verify that they are marked PUBLIC.

If an IBM licensed program was used to create the structured fields for the font containing the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS375I   DATA IN A FONT RESOURCE IS NOT VALID: THE FNN DATA COUNT IN THE FNC STRUCTURED FIELD IS NOT VALID.

Explanation: The Font Name Map (FNN) Data Count in bytes 36-39 of the Font Control (FNC) structured field is specified incorrectly. PSF detected that this value is less than X'00000002', which is outside of the valid range X'00000002'–X'FFFFFFFF'. PSF detected this error while processing a font character set.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the

operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS376I   DATA IN A FONT RESOURCE IS NOT VALID: THE SPECIFIED FONT DOES NOT CONTAIN REQUIRED OUTLINE FONT EXTENSION INFORMATION.

Explanation: When bit 1 of byte 3 in a Font Control (FNC) structured field indicates that the font character set is an extension of an existing resident double-byte outline font, the font character extension triplet (triplet ID X'6D') must specify the GCSGID of the corresponding resident double-byte outline font. PSF detected this error while processing a font character set.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS377I   DATA IN A FONT RESOURCE IS NOT VALID: THE SPECIFIED OUTLINE FONT CHARACTER SET DOES NOT CONTAIN ANY FNN STRUCTURED FIELDS.

Explanation: No Font Name Map (FNN) structured fields exist for the specified outline font. PSF requires that at least one FNN structured field exist for an outline

font. PSF detected this error while processing a font character set.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS378I   **THE ENCODING SCHEME SPECIFIED IN THE CPD STRUCTURED FIELD DOES NOT MATCH THE ENCODING SCHEME SPECIFIED IN THE MCF STRUCTURED FIELD FOR THE FONT.**

Explanation: The font encoding scheme specified in the encoding scheme ID triplet (triplet ID X'27') of the Map Coded Font (MCF) structured field does not match the encoding scheme specified in bytes 42-43 in the Code Page Descriptor (CPD) structured field for the code page. PSF detected this error while processing a code page.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: The mismatch can be caused by an error in the MCF structured field that referenced the requested font, or by an error in the code page for the

requested font. If you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the code page, contact your system programmer. If you created the MCF structured field for the page definition or the MO:DCA data, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition or the MO:DCA data, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS380I   **THE REGISTRATION ID (***object-type OID***) OF AN OBJECT CONTAINER RESOURCE, NAME** *resource name* **OR OBJECT OID** *oid***, DOES NOT MATCH THE CORRESPONDING REGISTRATION ID FOR THE INVOKING JCL KEYWORD OR INCLUDING STRUCTURED FIELD.**

Explanation: An object container resource was requested through a JCL keyword or an IOB or MDR structured field, but the object classification triplet in the Begin Object Container structured field did not match the corresponding registration ID. For a list of registration IDs and their assumed functions, refer to *Mixed Object Document Content Architecture Reference*. A value of *** means that the name or object OID was not specified.

System action: If the object container was called out by JCL, PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

If the object container was included by an IOB or MDR structured field, PSF stops processing the page or overlay. PSF attempts to locate the end of the current page and resume processing on the next page. If the end of the current page cannot be located, PSF stops printing the data set.

User response: If you created the structured fields for the object container resource, ensure that the registration ID corresponds to the keyword used to invoke the resource or to the registration ID specified in the object classification triplet specified on the IOB or MDR structured field.

System programmer response: If an IBM licensed program was used to create the structured fields for the object container that contains the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 13, 17.

APS381I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE REGISTERED OBJECT ID IN THE OBJECT CLASSIFICATION TRIPLET ON A *structured field name* **STRUCTURED FIELD IS NOT SPECIFIED.**

Explanation: The registered object ID is 0 in the object classification triplet. Object containers require a registered ID to be specified.

System action: The system action depends on where the error is located:

- If the structured field is included in an object embedded in a page or overlay, or if the structured field is in a resource included by a page or overlay, PSF stops processing the page or overlay. PSF tries to find the end of the current page and resume processing on the next page. If it cannot find the end of the current page, PSF stops printing the data set.

- For non-presentation object containers, PSF stops printing the data set.

- If the error is contained in a page definition, PSF stops processing the data set and continues processing with the next data set.

- If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

PSF issues a message that identifies the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields,

correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 13, 17.

APS383I   THE PRESENTATION SYSTEM SETUP ID (*identifier***) SPECIFIED IN THE MMC STRUCTURED FIELD IS NOT CURRENTLY AVAILABLE AT THE DEVICE. THE DATA SET WILL BE HELD BY THE SYSTEM.**

Explanation: The Presentation System Setup ID in the Medium Modification Control (MMC) structured field contains a setup ID that is not currently available at the printer, or the printer does not support setup IDs. The MMC structured field is contained in the form definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*. PSF releases the current data set back to JES and requests that it be held by the system.

User response: To receive the printed output with the setup ID identified, either:

- Specify the FORMS keyword on the OUTPUT statement of the JCL with a parameter as determined by local procedures; or

- Ask the operator to make available on the printer the identified setup IDs; or

- Submit the job to a printer containing the identified setup ID.

If the setup ID identified is not what you wanted, either:

- Specify a form definition containing a different setup ID or no setup ID, or

- Modify the form definition to require a different presentation system setup ID or remove the use of the presentation system setup ID.

System programmer response: If this message appears on the operator's console, use the information provided in the Operator Response section. If the setup ID is not what you wanted, modify the PSF writer procedure as described in the User Response section.

Operator Response: If this message appears on the operator's console, it indicates that the resource containing the setup ID is defined for a separator page or the message data set in the PSF startup procedure. If the setup ID cannot be made available on your printer at all times, then contact your system programmer.

Refer to the operator's manual for your printer or your post-processing device to determine how to make the determined setup ID available for use.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS384I   **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MCC STRUCTURED FIELD INCLUDES CONFLICTING PRESENTATION SYSTEM SETUP ID VALUES.**

Explanation: Multiple MMC structured fields referenced by the MCC structured field do not use the exact same set of Presentation System Setup ID values.

System action: The form definition containing the error is not used, and one of these occurs:

- PSF is not started if the form definition containing the error is defined in the PSF startup procedure. The form definition resources defined in the PSF startup procedure are for separator pages, for the message data set, and for the default form definition resource for user print data sets.
- If the error is in a form definition specified on a user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS385I   **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE MODIFICATIONS SPECIFIED IN THE MMC STRUCTURED FIELD (**structured field**) INCLUDE UNPAIRED** keyword1 **AND** keyword2 **KEYWORDS.**

Explanation: The keywords must be paired in the Medium Modification Control (MMC) structured field. This form definition has one or the other keyword but not both, or the keyword pairs are not adjacent. The MMC structured field is contained in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- PSF is not started if the form definition containing the error is defined in the PSF startup procedure. The form definition resources defined in the PSF startup procedure are for separator pages, for the message data set, and for the default form definition resource for user print data sets.
- If the error is in a form definition specified on a user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS386I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A REQUIRED TRIPLET WITH ID *identifier* **WAS MISSING FROM AN** *structured field* **STRUCTURED FIELD.**

Explanation: When the triplet identifier is X'4B', the x- or y-axis origin for the object content or an object area size is specified on the Include Object (IOB) or Preprocess Presentation Object (PPO) structured field, but no measurement unit (X'4B') triplet is specified. A PPO structured field is contained in a print data set. An IOB structured field is contained in a print data set, overlay, or page definition.

When the triplet identifier is X'22', the Extended Resource Local Identifier (X'22') triplet is required on an IOB structured field in a page definition.

The structured field is contained in a print data set if it is a PPO.

System action: The system action depends on where the error is located:

- If the error is contained in a page definition, PSF stops processing the data set and continues processing with the next data set.
- If the error is in a page or overlay and the structured field is an IOB, PSF stops processing the page or overlay containing the structured field in error. PSF tries to find the end of the current page and resume processing on the next page. If PSF cannot find the end of the current page, it stops printing the data set.
- If the error is in the print data set and the structured field is a PPO, PSF stops processing the Resource Environment Group and continues processing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to place the IOB structured field in

the print data set or overlay, verify that the input to that program was valid. If it was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS387I   DATA IN AN INPUT RECORD IS NOT VALID: PARAMETER IN AN *structured field* **STRUCTURED FIELD CONTAINS UNACCEPTABLE DATA.**

Explanation: One of the parameters in the structured field is not valid. If structured field is an IOB structured field, one of these caused the problem:

- The object type specified is not supported or is not valid.
- The x or y offset of the object area or the rotation value are not explicitly specified when the reference coordinate system is set to X'00'.

If structured field is a PPO structured field, one of these caused the problem:

- The object type specified is not supported or is not valid.
- The x or y offset of the object area is not valid.

System action: PSF stops processing the page or overlay containing the structured field in error. PSF tries to find the end of the current page and resume processing on the next page. If it cannot find the end of the current page, PSF stops printing the data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS388I **DATA IN A PAGE SEGMENT IS NOT VALID:** *structured field* **STRUCTURED FIELD IS NOT ALLOWED IN A PAGE SEGMENT INCLUDED WITH AN IOB.**

Explanation: Only MO:DCA page segments are allowed to be included with an IOB structured field. MO:DCA page segments cannot contain IM1 images or PTOCA data.

System action: PSF stops processing the page or overlay containing the structured field in error. PSF attempts to locate the end of the current page and resume processing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you placed the IOB structured field in the print data set or overlay, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If you used a program to place the IOB structured field in the print data set or overlay, contact your system programmer.

System programmer response: If an IBM licensed program was used to place the IOB structured field in the print data set or overlay, verify that the input to that program was valid. If it was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS389I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE METRIC-TECHNOLOGY, THE UNIT BASE OR THE UNITS PER UNIT BASE FIELD IS NOT VALID IN THE X'84' TRIPLET ON THE MCF2.**

Explanation: The metric-technology, the unit base, or the units per unit base value in the X'84' triplet on the MCF2 structured field is not valid.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the

data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS390I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE** *structured field* **STRUCTURED FIELD CONTAINS A** *triplet* **TRIPLET THAT HAS AN INCORRECT VALUE. THE INCORRECT VALUE STARTS IN BYTE** *offset* **OF THE TRIPLET.**

Explanation: A value that is not valid was specified for a field that starts in the byte offset of the triplet identified in this message. The triplet is specified on the structured field identified in this message.

System action: If the error occurred in a form definition, a page definition, or a non-presentation object container resource (for example, COMSETUP), the form definition, page definition, or non-presentation object container resource is not used, and one of these occurs:

- PSF is not started for any of these:
  - The default form definition
  - A form definition specified for printing messages or separator pages
  - A page definition specified for printing messages or separator pages
- PSF cannot begin printing the data set for a form definition or non-presentation object container resource (or page definition, if printing line data) specified on a user's JCL OUTPUT statement; PSF tries to print the next data set.

If the error occurred in a structured field in a page or another type of resource, PSF attempts to find the end of the page or resource. If PSF can find the end of the page or resource, it prints any data accumulated for the current page. If PSF cannot find the end of the page or resource, it stops processing the data set.

PSF issues a message identifying the position of the structured field in the data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS391I   **THE METRIC-TECHNOLOGY AND RESOLUTION IN THE FONT DO NOT MATCH THE SPECIFIED VALUES.**

Explanation: One of these has occurred:

- The metric-technology and resolution values that are specified in the X'84' triplet on the MCF2 structured field do not match the values in the Font Control (FNC) structured field.
- The RESFMT keyword on the OUTPUT statement or the Resolution value from the Printer Inventory or the XTP7FMT field from the Resource-Management Exit 7 do not match the values in the Font Control (FNC) structured field.

The FNC structured field is in the font character set. These fields are required to match the specified values when the Presentation Fidelity Control (PFC) has the Font Fidelity triplet continuation rule set to "stop presentation". The PFC structured field is specified in the form definition.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: Determine whether the font required any preprocessing to match the resolution of the device; if so, ensure that this preprocessing was done. For more information about converting 240-pel fonts to 300-pel fonts, refer to *PSF for z/OS: Customization*. If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If the Printer Inventory or PRINTDEV JCL statement in the PSF startup procedure does not specify the correct font library for the resolution of the printer, correct it.

If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 8, 13, 17, 19.

APS392I   **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SCOPE VALUE IN THE MFC IS NOT VALID. EITHER DOCUMENT LEVEL OR PRINT FILE LEVEL FINISHING WAS SPECIFIED IN THE MEDIUM MAP OR MEDIUM LEVEL FINISHING WAS SPECIFIED IN THE DEG.**

Explanation: Either a Document Environment Group or a medium map in the current form definition contains a Medium Finishing Control (MFC) structured field with an incorrect value specified for the scope.

System action: The MFC is ignored and processing continues. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the

print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS393I   THE INPUT BIN SPECIFIED IN THE MMC STRUCTURED FIELD OR ON THE OUTPUT STATEMENT IS AN INSERTER BIN AND IS DISABLED. AN ALTERNATIVE BIN WAS SUBSTITUTED.

Explanation: The Medium Modification Control (MMC) structured field or the output statement requested an input bin that is supported by the printer but is disabled. This bin is an inserter bin. The MMC structured field is contained in a medium map in the form definition. The output statement is in the JCL.

System action: PSF continues processing, selecting paper from an alternative bin that is not an inserter bin.

User response: If the output is not acceptable, submit the print request to a printer that has the specified bin available, or ensure that the bin is enabled on the original printer before resubmitting the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS394I   THE PSF OBJECT STACK IS ABOUT TO OVERFLOW DUE TO MISSING END STRUCTURED FIELDS.

Explanation: Common conversion machine (CCM) has run out of its object stack area. The cause could be a data stream error. A begin structured field must be followed by a matching end structured field in the data stream. If this requirement is not met, the CCM can run out of its object stack area. A common cause of this problem is missing EDT structured fields.

System action: PSF stops the processing and printing of this data set.

User response: If you created the data stream, each begin structured field in the data stream must be followed by a matching end structured field. Check the data stream to ensure that it meets this requirement. If it does not meet the requirement, correct the data stream. If it does meet the requirement, this error code indicates a logic error. If you believe the error is a logic error, consult your service representative in the IBM Support Center for assistance, or use your electronic link with IBM services.

System programmer response: If an IBM licensed program was used to create the data stream with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 1, 2, 8, 13, 19.

APS395I   A FORMDEF RESOURCE REQUESTED A MEDIA EJECT CONTROL TO THE NEXT BACK SIDE AND DUPLEX=NO WAS SPECIFIED ON THE OUTPUT STATEMENT.

Explanation: When a media eject control to the next back side is specified in a FORMDEF, the DUPLEX=NO keyword on the OUTPUT statement cannot be used to change from duplex (specified in the FORMDEF) to simplex. The reason is that an incompatible request is being made—you cannot eject to the next back side when simplexing.

The only valid options for the DUPLEX keyword when a media eject control to the next back side is specified in the FORMDEF are:

* If the FORMDEF requests normal or tumble duplex, you can specify either duplex=normal or duplex=tumble on the output statement.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. Refer to *Mixed Object Document Content Architecture Reference*.

User response: Resubmit the job without requesting the DUPLEX keyword on the OUTPUT statement.

System programmer response: None.

Operator Response: None.

APS396I　　**DATA IN A FORMDEF RESOURCE IS NOT VALID: THE OUTPUT BIN SELECTION VALUE IN MMC STRUCTURED FIELD, ID** *identifier***, IS NOT ACCEPTABLE.**

Explanation:　The Medium Modification Control (MMC) structured field specified an output bin selection value of 0. Values 1 through 65535 are valid. The MMC structured field is in the form definition.

System action:　The form definition containing the error is not used, and one of these occurs:

- PSF is not started if the form definition containing the error is defined in the PSF startup procedure. The form definition resources defined in the PSF startup procedure are for separator pages, for the message data set, and for the default form definition resource for user print data sets.
- If the error is in a form definition specified on a user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response:　If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response:　If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response:　If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination:　Items 2, 17.

APS397I　　**DATA IN A FORMDEF RESOURCE IS NOT VALID: DIFFERENT OUTPUT BIN VALUES ARE SPECIFIED FOR THE FRONT AND BACK SIDES OF A SHEET IN MEDIUM MAP** *medium map***.**

Explanation:　The Medium Modification Control (MMC) structured fields referenced by the Medium Copy Count

(MCC) structured field repeating groups specify different output bin values along with either tumble or normal duplex. The settings attempt to place the front and back sides of a sheet into different output bins. The MMC structured field is in the form definition.

System action:　The form definition containing the error is not used, and one of these occurs:

- PSF is not be started if the form definition containing the error is defined in the PSF startup procedure. The form definition resources defined in the PSF startup procedure are for separator pages, for the message data set, and for the default form definition resource for user print data sets.
- If the error is in a form definition specified on a user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the form definition. PSF issues additional messages identifying the processing environment in which the error occurred.

User response:　If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response:　If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response:　If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination:　Items 1, 2, 13, 15c, 17, 19.

APS398I　　**DATA IN A FORMDEF RESOURCE IS NOT VALID: THE SET OF MODIFICATIONS SPECIFIED IN THE MMC STRUCTURED FIELD, ID** *identifier***, INCLUDES DUPLICATE CONFLICTING VALUES FOR THE** *identifier* **KEYWORD.**

Explanation:　The Medium Modification Control (MMC) structured field contains duplicate conflicting values for the MMC keyword identified in the message text. The MMC structured field is in the form definition.

System action:　PSF issues this message and

continues processing, ignoring the duplicate keyword.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. For more information about the structured field, refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the MMC has no errors, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS399I **AN OUTPUT BIN** *bin number* **WAS REQUESTED FOR THE JOB, BUT IT WAS NOT AVAILABLE OR THE PRINTER DOES NOT SUPPORT OUTPUT BIN SELECTION.**

Explanation: The OUTBIN keyword on the JCL OUTPUT statement or the output bin selection parameter value in the form definition specified an output bin. Either that bin is not available or the printer does not support output bin specification. Since mandatory print labeling is enabled, the data set cannot be processed.

System action: PSF cannot print the current data set. PSF stops processing and printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred. PSF releases the current data set back to JES and requests that it be held by the system, unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: Users have several options to correct or avoid this error:

- Resubmit the print request to a printer that supports the requested bin number.

- If the bin number was specified on the JCL OUTPUT statement, change the OUTBIN keyword to a bin number that is supported by the printer and resubmit the print request. If the bin number specified by the OUTBIN keyword is supported by the printer, the error might be a PSF logic error.

- If you created the structured fields for the form definition, change the MMC structured field,

specifying the correct output bin selection parameter value that is supported by the printer and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC output bin selection parameter is supported by the printer, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

- Disable mandatory print labeling and resubmit the print request.

- If you print to a printer that does not support output bin specification, remove the output bin specification.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 2, 8, 19.

APS400I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: BYTE 0 OF A SELF-DEFINING FIELD IS NOT VALID OR IS UNSUPPORTED IN AN IPD STRUCTURED FIELD.**

Explanation: The Image Picture Data (IPD) structured field is made up of self-defining fields. Byte 0 in each self-defining field identifies the type of self-defining field that follows it. The value of byte 0 in this self-defining field is not one of the supported values. The hex code for the self-defining field is provided in the formatted sense message (APS830I) in the Element Identifier (bytes 16-17). IOCA self-defining fields include:

     0—no self-defining field ID provided
     70—Begin Segment
     71—End Segment
     8C—Begin Tile Parameter
     8D—End Tile Parameter
     8E—Begin Transparency Mask Parameter
     8F—End Transparency Mask Parameter
     91—Begin Image Content
     93—End Image Content
     94—Image Size Parameter
     95—Image Encoding Parameter
     96—Image Data Element Size Parameter
     97—Image Look Up Table ID Parameter
     98—Band Image Parameter
     9B—Image Data Element Structure Parameter
     9F—External Algorithm Specification Parameter
     B5—Tile Position Parameter
     B6—Tile Size Parameter
     B7—Tile Set Color Parameter
     F6—Set Bi-level Image Color
     F8—Set Presentation Space Size
     FE92—Image Data

FE9C—Band Image Data
FEB8—Include Tile Parameter
FEBB—Tile TOC Parameter
FECE—Image Subsampling Parameter
FEDE—Color Palette Parameter
nnnn—unrecognized self-defining field

The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS401I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE LENGTH PARAMETER OF AN IMAGE FIELD IS NOT VALID OR IS UNSUPPORTED IN AN IPD STRUCTURED FIELD.**

Explanation: The value specified in the Length parameter of a self-defining field is not valid or is unsupported. The self-defining field is in an Image Picture (IPD) structured field. The hex code for the self-defining field is provided in the formatted sense message (APS830I) in the Element Identifier (bytes 16-17). IOCA self-defining fields include:
0—self-defining field ID not provided

70—Begin Segment
71—End Segment
8C—Begin Tile Parameter
8D—End Tile Parameter
8E—Begin Transparency Mask Parameter
8F—End Transparency Mask Parameter
91—Begin Image Content
93—End Image Content
94—Image Size Parameter
95—Image Encoding Parameter
96—Image Data Element Size Parameter
97—Image Look Up Table ID Parameter
98—Band Image Parameter
9B—Image Data Element Structure Parameter
9F—External Algorithm Specification Parameter
B5—Tile Position Parameter
B6—Tile Size Parameter
B7—Tile Set Color Parameter
F6—Set Bi-level Image Color
F8—Set Presentation Space Size
FE92—Image Data
FE9C—Band Image Data
FEB8—Include Tile Parameter
FEBB—Tile TOC Parameter
FECE—Image Subsampling Parameter
FEDE—Color Palette Parameter
nnnn—unrecognized self-defining field

The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator

pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS402I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A BEGIN SEGMENT FIELD IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.**

Explanation: A Begin Segment field is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS403I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN END SEGMENT FIELD IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.**

Explanation: An End Segment field is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The

image object can be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS404I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A BEGIN IMAGE CONTENT FIELD IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.**

Explanation: A Begin Image Content field is missing, was encountered out of sequence, or (for a printer that does not support multiple image contents) appeared more than once. A Begin Image Content field is contained in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object can be contained in a MO:DCA document, an overlay, an object container, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more

severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS405I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN END IMAGE CONTENT FIELD IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An End Image Content field is missing, was encountered out of sequence in an Image Picture Data (IPD) structured field or (for a printer that does not support multiple image contents) appeared more than once. An End Image Content field must follow an Image Data self-defining field, a Band Image Data self-defining field, or an End Tile self-defining field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, an object container, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image

object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS406I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMAGE SIZE PARAMETER IS MISSING OR OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An Image Size Parameter value is missing or out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator

pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS407I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE IMAGE SIZE CANNOT BE DETERMINED.**

Explanation: An X- or Y-extent value in the Image Size Parameter is 0, but the size of the image in that direction cannot be detected from the image data. The Image Size Parameter is in an Image Picture Data (IPD) structured field.

If the IM1 image resolution within the IID structured field does not match the printer resolution, PSF attempts to convert the IM1 image to Image Object Content Architecture (IOCA), if the printer supports IOCA. During this conversion process, IM1 structured fields are converted to IOCA Intelligent Printer Data Stream™ (IPDS) commands. If the size of the image specified in the IID structured field is 0, this error might occur.

The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS408I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN UNSUPPORTED VALUE WAS FOUND IN AN IMAGE ENCODING PARAMETER IN AN IPD STRUCTURED FIELD.**

Explanation: A value in the Image Encoding Parameter is unsupported. The parameter is in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS409I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN UNSUPPORTED VALUE WAS FOUND IN AN IMAGE DATA ELEMENT SIZE PARAMETER IN AN IPD STRUCTURED FIELD.**

Explanation: A value in an Image Data Element Size Parameter is not valid. The parameter is in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay,

or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS410I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE IDE SIZE IN AN IMAGE DATA ELEMENT SIZE PARAMETER DOES NOT MATCH THE COMPRESSION VALUE IN THE IMAGE ENCODING PARAMETER IN AN IPD STRUCTURED FIELD.

Explanation: The Image Data Element (IDE) Size in an Image Data Element Size Parameter is inconsistent with the Compression Identifier in the Image Encoding Parameter. The parameters are in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more

severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS411I   AN ATTEMPT WAS MADE TO PLACE IMAGE DATA OUTSIDE OF THE IMAGE PRESENTATION SPACE.

Explanation: An attempt was made to place image data outside of the image presentation space. The image presentation space is a two-dimensional conceptual space in which an image is generated. The space is then mapped onto an output medium. The size of the image presentation space is defined in the Image Data Descriptor (IDD) structured field. The size of the image data is defined in the Image Size Parameter in an Image Picture Data (IPD) structured field. The size of the image data specified in the IPD structured field is too large to fit in the image presentation space specified in the IDD structured field. The IDD and IPD structured fields are in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the

error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS412I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN INCORRECT VALUE WAS FOUND IN A SELF-DEFINING FIELD IN AN IPD STRUCTURED FIELD.

Explanation: An incorrect value was found in one of these image self-defining fields: Begin Image Content, Image Size Parameter, or Image Data Element Size Parameter. The self-defining fields are in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the

image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS413I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMAGE ENCODING PARAMETER IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An Image Encoding Parameter is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS414I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMAGE DATA ELEMENT SIZE PARAMETER IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An Image Data Element Size Parameter is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS415I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMAGE LOOK-UP TABLE ID PARAMETER VALUE IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An Image Look Up Table ID Parameter is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS416I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN UNSUPPORTED LUT IDENTIFIER WAS FOUND IN AN IMAGE LOOK-UP TABLE ID PARAMETER IN AN IPD STRUCTURED FIELD.

Explanation: The value for the Look-Up Table (LUT) Identifier in the Look-Up Table ID Parameter is unsupported. The parameter is in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content*

Architecture Reference for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS417I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMAGE DATA SELF-DEFINING FIELD IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An Image Data self-defining field is out of sequence in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that

program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS418I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE IMAGE SIZE SPECIFIED IN THE IMAGE SIZE PARAMETER DOES NOT MATCH THE SIZE OF THE IMAGE DATA IN AN IPD STRUCTURED FIELD.

Explanation: The Image Size value specified in the Image Size Parameter does not match the size of the image data in an Image Data self-defining field. The Image Data field and the Image Size Parameter are both in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

If the IM1 image resolution in the IID structured field does not match the printer resolution, PSF attempts to convert the IM1 image to Image Object Content Architecture (IOCA) (if the printer supports IOCA). During this conversion process, IM1 structured fields are converted to IOCA Intelligent Printer Data Stream (IPDS) commands. If the size of the image specified in the IID structured field does not match the amount of image data within the IRD structured fields, this error might occur.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that

program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27.

APS419I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN UNSUPPORTED UNIT BASE VALUE WAS FOUND IN AN IMAGE SIZE PARAMETER IN AN IPD STRUCTURED FIELD.

Explanation: The Unit Base value in an Image Size Parameter is not valid. The parameter is in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Problem determination: Items 2, 8, 13, 17, 27. The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page

following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

APS420I   AN ATTEMPT WAS MADE TO PRINT AN HRI CHARACTER OUTSIDE OF THE BAR CODE PRESENTATION SPACE.

Explanation: An attempt was made to print a human readable interpretation (HRI) character outside of the bar code presentation space. The bar code presentation space is a two-dimensional conceptual space in which a bar code is generated. The space is then mapped onto an output medium. The size of the bar code presentation space is defined in the Bar Code Data Descriptor (BDD) structured field.

The position of the HRI characters is defined in the Flags byte of the Bar Code Data (BDA) structured field. The position for the placement of the HRI characters caused an HRI character to be located outside of the bar code presentation space. The BDA and BDD structured fields are in a bar code object. The bar code object might be contained in an overlay or a MO:DCA document or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS421I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE BAR CODE TYPE IN A BAR CODE IS NOT VALID OR IS UNSUPPORTED.

Explanation: If the bar code is specified as a bar code object, the Bar Code Type specified in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the type name specified by the TYPE parameter on the BARCODE subcommand is not valid.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS422I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE LOCAL FONT IDENTIFIER IN A BAR CODE IS UNSUPPORTED OR REFERS TO A FONT THAT IS NOT AVAILABLE IN THE PRINTER.

Explanation: If the bar code is specified as a bar code object, the Local Font Identifier specified in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the name specified by the FONT subcommand on the FIELD command containing the BARCODE subcommand is not valid or is unsupported.

This error can occur when the Font ID is unsupported, is not mapped to a font, or is mapped to a font that is not loaded in the printer.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS423I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE COLOR IDENTIFIER IN A BAR CODE IS UNSUPPORTED.

Explanation: If the bar code is specified as a bar code object, the Color Identifier specified in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the color name specified by the BCCOLOR parameter on the BARCODE subcommand is not valid.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

• If the printer supports the PFC Color Fidelity triplet the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

• If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code*

Object Content Architecture Reference for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

If you submitted the print request to the wrong printer, consult your operator to determine to which printer that data set should be rerouted.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that supports this function. For a JES command to release the data set for printing, refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* .

If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS424I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE MODULE WIDTH IN A BAR CODE IS NOT VALID OR IS UNSUPPORTED.

Explanation: If the bar code is specified as a bar code object, the Module Width specified in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified by the MODWIDTH parameter on the BARCODE subcommand is not valid.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error,

unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS425I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE ELEMENT HEIGHT IN A BAR CODE IS NOT VALID OR IS UNSUPPORTED.**

Explanation: If the bar code is specified as a bar code object, the Element Height specified in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified by the HEIGHT parameter on the BARCODE subcommand is not valid.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code*

Object Content Architecture Reference for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS426I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE HEIGHT MULTIPLIER IN A BAR CODE IS NOT VALID.**

Explanation: If the bar code is specified as a bar code object, the Height Multiplier specified in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the Bar Code Symbol Descriptor (X'69') triplet in a page definition, the Height Multiplier is not valid.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to*Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the X'69' triplet.

If the structured field or page definition has no error, the

error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object or page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS427I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE WIDE-TO-NARROW RATIO IN A BAR CODE IS NOT VALID OR IS UNSUPPORTED.

Explanation: If the bar code is specified as a bar code object, the Wide-to-Narrow Ratio specified in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified by the RATIO parameter on the BARCODE subcommand is not valid.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS428I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE SYMBOL ORIGIN FOR A BAR CODE SYMBOL IS NOT VALID OR IS UNSUPPORTED.

Explanation: If the bar code is specified as a bar code object, the Symbol Origin specified in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the x-pos and y-pos values specified by the POSITION subcommand on the FIELD command containing the BARCODE subcommand are not valid or are unsupported.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to

PSF for z/OS: Diagnosis for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS429I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE BAR CODE MODIFIER IN A BAR CODE IS NOT VALID OR IS UNSUPPORTED.**

Explanation: If the bar code is specified as a bar code object, the Bar Code Modifier specified in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the MOD parameter on the BARCODE subcommand is not valid or is unsupported for the type-name specified by the TYPE parameter on the BARCODE subcommand.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS430I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE BAR CODE DATA LENGTH IN A BAR CODE IS NOT VALID OR IS UNSUPPORTED.**

Explanation: If the bar code is specified as a bar code object, the length of the bar code data specified in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified by the LENGTH subcommand on the FIELD command containing the BARCODE subcommand is not valid or is unsupported.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS431I **THE OBJECT AREA ORIGIN IN AN OBP STRUCTURED FIELD FOR A BAR CODE BLOCK IS OUTSIDE OF THE LOGICAL PAGE.**

Explanation: The bar code block origin is specified in the Object Area Origin parameter of an Object Area Position (OBP) structured field. The origin specified lies outside of the logical page. The origin of the logical page is specified in the Page Position (PGP) structured field. The dimensions of the logical page are specified in the Page Descriptor (PGD) structured field.

The OBP structured field is in a bar code object. The bar code object might be contained in an overlay or a MO:DCA document or it might be embedded in a data set containing line data. The PGD structured field is in the MO:DCA data set, an overlay, or a page definition. The PGP structured field is in a form definition.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: Change one of these specifications:
- The logical page origin, by correcting the form definition.
- The logical page size, by correcting the MO:DCA data, the overlay, or the page definition.
- The bar code block origin, by correcting the bar code object.

If any of the specifications seem to be correct, this error might be a PSF or printer logic error. Notify your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS432I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A CHECK DIGIT VALUE OF 10 WAS CALCULATED, WHICH IS AN ERROR AS DEFINED BY THE BAR CODE MODIFIER FOR THIS BAR CODE TYPE.**

Explanation: The Bar Code Modifier associated with the Bar Code Type of MSI specified that a check digit value of 10 should be treated as an error condition. A check digit value of 10 was calculated, which means that the bar code data is incorrect.

If the bar code is specified as a bar code object, the bar code data is in a Bar Code Data (BDA) structured field.

If the bar code is specified with the BARCODE subcommand in a page definition, the data is specified by the START and LENGTH subcommands on the FIELD command containing the BARCODE subcommand.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS433I   THE HRI LOCATION FOR A BAR CODE IS NOT VALID OR IS UNSUPPORTED.

Explanation: If the bar code is specified as a bar code object, Human Readable Interpretation (HRI) location specified in the Flag byte in a Bar Code Data Descriptor (BDD) structured field is not valid or is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified by the HRI parameter on the BARCODE subcommand is not valid or is unsupported.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS434I   AN ATTEMPT WAS MADE TO PLACE BAR CODE DATA OR THE BAR CODE PRESENTATION SPACE OUTSIDE OF THE DEFINED OUTPUT AREA FOR BAR CODE DATA.

Explanation: The meaning of this exception depends on the printer that detected it. Refer to your printer publications to determine which of these possibilities applies:

* Part of a bar code symbol extends beyond the output area for bar code data. This output area is the intersection of the mapped bar code presentation space with the bar code block.
* Part of the bar code presentation space extends beyond the boundaries of the bar code block.
* Part of the bar code symbol extends outside the valid printable area.

If the bar code is specified as a bar code object, the size of the bar code presentation space is defined in the Bar Code Data Descriptor (BDD) structured field. The size of the bar code block is defined in the Object Area Descriptor (OBD) structured field. The placement of the bar code symbol is defined in the Bar Code Data (BDA) structured field.

If the bar code is specified with the BARCODE subcommand in a page definition, the START and LENGTH subcommands on the FIELD command containing the BARCODE subcommand determine the data used for the bar code. If the bar code is specified in a page definition, the only possible error is the bar code symbol exceeds the valid printable area.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions. If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS435I   **AN ATTEMPT WAS MADE TO PLACE BAR CODE DATA OR THE BAR CODE PRESENTATION SPACE OUTSIDE OF THE DEFINED OUTPUT AREA FOR BAR CODE DATA.**

Explanation: The meaning of this exception depends on the printer that detected it. Refer to your printer publications to determine which of these possibilities applies:

- Part of a bar code symbol extends beyond the output area for bar code data. This output area is the intersection of the mapped bar code presentation space and the bar code block.
- Part of the bar code presentation space extends beyond the bar code block boundaries.
- Part of the bar code symbol extends outside the valid printable area.

If the bar code is specified as a bar code object, the size of the bar code presentation space is defined in the Bar Code Data Descriptor (BDD) structured field. The size of the bar code block is defined in the Object Area Descriptor (OBD) structured field. The placement of the bar code symbol is defined in the Bar Code Data (BDA) structured field.

If the bar code is specified with the BARCODE subcommand in a page definition, the START and LENGTH subcommands on the FIELD command containing the BARCODE subcommand determine the data used for the bar code. If the bar code is specified in a page definition, the only possible error is the bar code symbol exceeds the valid printable area.

The bar code object might be contained in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page*

Printer Formatting Aid: User's Guide for more information about creating page definitions.

If the structured field or page definition has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS436I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: GRAPHICS DATA CONTAINS AN UNSUPPORTED DRAWING ORDER OR COMMAND CODE.**

Explanation: One of these errors was detected in a graphics object:

- An unsupported drawing order was specified in a Graphics Data (GAD) structured field.
- A Begin Segment Introducer was not found in a GAD structured field.
- The Drawing Order self-identifying parameter of a Graphics Data Descriptor (GDD) structured field an incorrect value for Parameter Type.
- A graphics command code was received that is not a supported IPDS command code, as described in *Intelligent Printer Data Stream Reference*. This might be a PSF or printer logic error.

The GAD and GDD structured fields are in a graphics object. The graphics object might be contained in a MO:DCA document, or an overlay, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content*

Architecture Reference for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS437I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A GRAPHICS OBJECT CONTAINS AN INCORRECT VALUE.

Explanation: One of these errors was detected in a graphics object:

- A reserved byte in a graphics drawing order is not set to 0. Drawing orders are in a Graphics Data (GAD) structured field.
- The Set Current Defaults self-identifying parameter of the Graphics Data Descriptor (GDD) structured field contains one of these incorrect values:
  - The Parameter Type value is not valid.
  - The Parameter Length is X'04', but the Flag byte is not X'0F'.
  - The Parameter Length is greater than X'04', but the Flag byte is not X'8F'.
  - A Mask attribute value is not valid or is unsupported.

The GAD and GDD structured fields are in a graphics object. The graphics object might be contained in a MO:DCA document, or an overlay, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content*

Architecture Reference for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS438I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE LENGTH OF A GRAPHICS DRAWING ORDER IS INCORRECT.

Explanation: A drawing order in a graphics object has an incorrect length. This error might be caused by one of these:

- The Segment Length in a Begin Segment Introducer in a Graphics Data (GAD) structured field is X'0000' for a new segment.
- A drawing order in a GAD structured field specifies an incorrect length.
- In the Set Current Defaults self-identifying parameter of a Graphics Data Descriptor (GDD) structured field, one of these errors was detected:
  - The Flag byte is X'8F', but the Length field does not contain the value implied by the Mask field.
  - The Flag byte is X'0F', but the Length field is not X'04'.
  - The amount of Data bytes does not match the value in the Length field.

The GAD and GDD structured fields are in a graphics object. The graphics object might be contained in a MO:DCA document, or an overlay, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for

the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS439I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A GRAPHICS DRAWING ORDER IN A GAD STRUCTURED FIELD CONTAINS AN INCORRECT ATTRIBUTE VALUE.

Explanation: A drawing order in a Graphics Data (GAD) structured field contains an incorrect value for an attribute. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Color Fidelity triplet the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page

in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Contact your operator and ask that your previous print request, which was held, be purged. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

If you submitted the print request to the wrong printer, consult your operator to determine to which printer that data set should be rerouted.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that supports this function. For a JES command to release the data set for printing, refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* .

If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS440I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A GRAPHICS DRAWING ORDER IN A GAD STRUCTURED FIELD IS INCOMPLETE.

Explanation: An incomplete drawing order was specified in a Graphics Data (GAD) structured field. The GAD structured field is in a graphics object. The graphics object might be contained in a MO:DCA document, or an overlay, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS441I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE PROLOG IN A GAD STRUCTURED FIELD CONTAINS INCORRECT DATA.

Explanation: A Graphics Data (GAD) structured field contains a Begin Segment Introducer that defines a prolog for a graphics segment. The prolog has one of these errors:

- A supported drawing order has been encountered that is not valid in a prolog.
- The end of the segment was reached and no End Prolog was encountered.

The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS442I AN ATTEMPT WAS MADE TO PLACE GRAPHICS DATA OUTSIDE OF THE GRAPHICS PRESENTATION SPACE.

Explanation: A drawing order attempted to place graphics data outside of the graphics presentation space. The graphics presentation space is a two-dimensional conceptual space in which the graphics data is generated. The space is then mapped onto an output medium. The extent of the graphics presentation space is -32K to +32K units. The size of the graphics data is defined in the Begin Image drawing order in the Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current

data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS443I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A GRAPHICS DRAWING ORDER IN A GAD STRUCTURED FIELD CONTAINS AN UNSUPPORTED ATTRIBUTE VALUE, SUCH AS AN UNSUPPORTED COLOR VALUE.

Explanation: A drawing order in a Graphics Data (GAD) structured field contains an unsupported value for an attribute. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

This message is sometimes issued because an unsupported color value is specified in a Set Color or Set External Color drawing order.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Color Fidelity triplet the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Contact your operator and ask that your previous print request, which was held, be purged. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

If you submitted the print request to the wrong printer, consult your operator to determine to which printer that data set should be rerouted.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that supports this function. For a JES command to release the data set for printing, refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* .

If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set,

or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS444I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A DEFAULT VALUE SET IN A GDD STRUCTURED FIELD IS NOT VALID OR IS UNSUPPORTED.

Explanation: The Set Current Defaults self-identifying parameter of a Graphics Data Descriptor (GDD) structured field sets a default in the Data bytes that is not valid or is unsupported. The GDD structured field is in a graphics object. The graphics object might be contained in a MO:DCA document, or an overlay, or it might be embedded in a data set containing line data.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Color Fidelity triplet the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Contact your operator and ask that your previous print request, which was held, be purged. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

If you submitted the print request to the wrong printer, consult your operator to determine to which printer that data set should be rerouted.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that supports this function. For a JES command to release the data set for printing, refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* .

If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS445I   PRINTER (*prtnnnn*) IS UNUSABLE—ASSIGNED TO ANOTHER SYSTEM.

Explanation: PSF attempted to issue I/O to the printer, but the printer was assigned (reserved) to another system. The printer multi-host feature was enabled, which causes the printer to enforce that only one system can use the printer at a time. The printer detected and reported the error with an action code X'25' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF issues this message and ends with an abend 024 RC0E33 or abend 024 RC0E35.

System programmer response: If you do not need to share the printer among multiple PSF hosts, disable the multi-host feature at the printer console. For more information concerning sharing a printer among multiple PSFs, refer to *PSF for z/OS: Customization*.

Operator Response: Determine which system the printer is assigned to and, when appropriate, vary the printer offline from that system and vary the printer

online to the desired system. Restart PSF.

Problem determination: Item 1.

APS446I   **DATA IN AN INPUT RECORD OR
RESOURCE IS NOT VALID: THE SET
CHARACTER ANGLE DRAWING
ORDER IN A GAD STRUCTURED FIELD
SPECIFIES AN UNSUPPORTED
CHARACTER ANGLE VALUE.**

Explanation: The Character Angle value specified in a
Set Character Angle drawing order is not supported.
The drawing order is contained in a Graphics Data
(GAD) structured field. The GAD structured field is
contained in a graphics object. The graphics object
might be contained in a MO:DCA document or an
overlay or it might be embedded in a data set
containing line data.

System action: The printer you were using might try
to print the page in error. The entire page might not be
printed. If the page in error contains any positioning
errors, then print-error markers might be included on the
printed page. PSF continues processing the current
data set with the page following the page in error,
unless the printer reported another error that required a
more severe PSF recovery action.

User response: If you created the structured fields for
the graphics object, correct the error and resubmit the
print request. Refer to *Mixed Object Document Content
Architecture Reference* for more information about the
structured field. If the structured field has no error, the
error might be a PSF or printer logic error. If you used a
program to create the structured fields for the graphics
object, contact your system programmer.

System programmer response: If an IBM licensed
program was used to create the structured fields for the
graphics object with the error, verify that the input to
that program was valid. If the input was valid, refer to
PSF for z/OS: Diagnosis for assistance in determining
the source of the problem. If the error involves
separator pages or the message data set, use the
information provided in the User Response section to
correct the error.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page or
the message data set in the PSF startup procedure.
Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS447I   **DATA IN AN INPUT RECORD OR
RESOURCE IS NOT VALID: THE END
PROLOG DRAWING ORDER IS OUT OF
SEQUENCE IN A GAD STRUCTURED
FIELD.**

Explanation: PSF found an End Prolog drawing order
outside of the prolog section of a graphics segment.

The drawing order is contained in a Graphics Data
(GAD) structured field. The GAD structured field is
contained in a graphics object. The graphics object
might be contained in a MO:DCA document or an
overlay or it might be embedded in a data set
containing line data.

System action: The printer you were using might try
to print the page in error. The entire page might not be
printed. If the page in error contains any positioning
errors, then print-error markers might be included on the
printed page. PSF continues processing the current
data set with the page following the page in error,
unless the printer reported another error that required a
more severe PSF recovery action.

User response: If you created the structured fields for
the graphics object, correct the error and resubmit the
print request. Refer to *Mixed Object Document Content
Architecture Reference* for more information about the
structured field. If the structured field has no error, the
error might be a PSF or printer logic error. If you used a
program to create the structured fields for the graphics
object, contact your system programmer.

System programmer response: If an IBM licensed
program was used to create the structured fields for the
graphics object with the error, verify that the input to
that program was valid. If the input was valid, refer to
PSF for z/OS: Diagnosis for assistance in determining
the source of the problem. If the error involves
separator pages or the message data set, use the
information provided in the User Response section to
correct the error.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page or
the message data set in the PSF startup procedure.
Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS448I   **DATA IN AN INPUT RECORD OR
RESOURCE IS NOT VALID: AN END
AREA DRAWING ORDER IS OUT OF
SEQUENCE IN A GAD STRUCTURED
FIELD.**

Explanation: An End Area drawing order was
encountered without a Begin Area drawing order
preceding it. The drawing order is contained in a
Graphics Data (GAD) structured field. The GAD
structured field is contained in a graphics object. The
graphics object might be contained in a MO:DCA
document or an overlay or it might be embedded in a
data set containing line data.

System action: The printer you were using might try
to print the page in error. The entire page might not be
printed. If the page in error contains any positioning
errors, then print-error markers might be included on the
printed page. PSF continues processing the current
data set with the page following the page in error,

unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS449I   INSUFFICIENT PRINTER STORAGE WAS AVAILABLE TO PROCESS A GRAPHICS OBJECT.

Explanation: Some areas defined in graphics segments require temporary printer storage for processing. Insufficient temporary printer storage was available to process a graphics segment in a graphics object. The graphics object might be contained in a MO:DCA document, or an overlay, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: Simplify the area defined in the graphics segment, and submit the print request again.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS450I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A BEGIN AREA DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: A Begin Area drawing order was encountered at a time when another Begin Area drawing order was in effect. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS451I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN END AREA DRAWING ORDER IS MISSING FROM A GAD STRUCTURED FIELD.

Explanation: A Begin Area drawing order was processed in a graphics segment, and the end of the segment was reached before an End Area drawing order was encountered. The drawing orders are contained in a Graphics Data (GAD) structured field.

The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS452I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN UNEXPECTED DRAWING ORDER WAS ENCOUNTERED IN A GAD STRUCTURED FIELD.**

Explanation: A drawing order was encountered within an area defined by a Begin Area drawing order. This drawing order is supported, but is not valid inside an area. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a

more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS453I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE SET PATTERN SET DRAWING ORDER IN A GAD STRUCTURED FIELD CONTAINS AN UNSUPPORTED VALUE.**

Explanation: The Pattern Set Identifier specified in a Set Pattern Set drawing order is not supported. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to

that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS454I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE PATTERN TYPE SPECIFIED IN A SET PATTERN SYMBOL DRAWING ORDER IN A GAD STRUCTURED FIELD IS UNDEFINED.**

Explanation: The Pattern Type specified in a Set Pattern Symbol drawing order is not defined in the pattern symbol set specified in a Set Pattern Set drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure.

Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS455I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE SEGMENT FLAGS IN THE BEGIN SEGMENT INTRODUCER OF A GAD STRUCTURED FIELD ARE NOT VALID.**

Explanation: The Segment Flags in the Begin Segment Introducer of a Graphics Data (GAD) structured field are set to B'10', which is an incorrect value. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS456I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE SEGMENT FLAGS IN THE BEGIN SEGMENT INTRODUCER OF A GAD STRUCTURED FIELD ARE NOT VALID.**

Explanation: The Segment Flags in the Begin Segment Introducer of a Graphics Data (GAD) structured field are set to B'01', which is an incorrect value. The GAD structured field is contained in a

graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS457I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: BYTE 1 OF THE BEGIN SEGMENT INTRODUCER IS NOT VALID IN A GAD STRUCTURED FIELD.**

Explanation: The Begin Segment Introducer Length parameter (byte 1) is not valid in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for

the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS458I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: LESS DATA WAS FOUND IN THE DRAWING ORDERS FOR A GRAPHICS SEGMENT THAN WAS SPECIFIED IN THE BEGIN SEGMENT INTRODUCER SEGMENT LENGTH PARAMETER IN A GAD STRUCTURED FIELD.**

Explanation: The amount of data in the drawing orders for a graphics segment is less than the segment length specified in the Begin Segment Introducer of a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the

graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS459I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMAGE DATA DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: An Image Data drawing order was encountered without a preceding Begin Image drawing order. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS460I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE AMOUNT OF IMAGE DATA FOUND IN AN IMAGE DATA DRAWING ORDER IN A GAD STRUCTURED FIELD DOES NOT MATCH THE SPECIFIED LENGTH.

Explanation: The amount of image data found in an Image Data drawing order does not match the Length parameter specified in that drawing order. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS461I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN END IMAGE DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: An End Image drawing order was encountered that is not preceded by a Begin Image drawing order. The drawing order is contained in a

Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS462I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE NUMBER OF DRAWING ORDERS IN A GAD STRUCTURED FIELD IS INCORRECT.

Explanation: The number of drawing orders between the Begin Image and End Image drawing orders is not equal to the value specified in the Image Height parameter in the Begin Image drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error,

unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS463I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE SET MARKER SET DRAWING ORDER IN A GAD STRUCTURED FIELD CONTAINS AN UNSUPPORTED VALUE.

Explanation: The Local Marker Set Identifier specified in a Set Marker Set drawing order is not supported. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the

graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS464I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE MARKER SYMBOL SPECIFIED IN A SET MARKER SYMBOL DRAWING ORDER IN A GAD STRUCTURED FIELD IS UNDEFINED.**

Explanation: The Marker Symbol specified in a Set Marker Symbol drawing order is not defined in the marker symbol set specified in the Set Marker Set drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS465I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE MARKER SYMBOL SPECIFIED IN A SET MARKER SYMBOL DRAWING ORDER IN A GAD STRUCTURED FIELD IS NOT SUPPORTED IN THE CURRENT MARKER SYMBOL SET.**

Explanation: The Marker Symbol specified in a Set Marker Symbol drawing order is not supported in the marker symbol set specified in the Set Marker Set drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS466I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE CHARACTER SET SPECIFIED IN A SET CHARACTER SET DRAWING ORDER IN A GAD STRUCTURED FIELD IS NOT AVAILABLE IN THE PRINTER OR CANNOT BE USED WITH THE**

CURRENT PRINT QUALITY LEVEL.

Explanation: The Local Character Set Identifier specified in a Set Character Set drawing order is not mapped to a font or symbol set, or was mapped to a font or symbol set that is not loaded in the printer. For printers that support multiple levels of print quality, another source of this error is that the symbol set mapped to the Character Set ID is not supported at the current print quality level. The print quality level is specified in the Medium Modification Control (MMC) structured field in the form definition. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: Change one of these specifications:
• The print quality level in the form definition
• The character set identifier in the graphics object

If the character set originally specified should be supported at the specified print quality level, this error might be a PSF or printer logic error. Notify your system programmer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. If you suspect a PSF logic error, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS467I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A GRAPHICS CHARACTER CODE IN A GAD STRUCTURED FIELD IS UNDEFINED OR UNAVAILABLE IN THE CURRENT CHARACTER SET.**

Explanation: A graphics character code in a Character String drawing order is undefined or points to a character pattern that is not available in the character set specified in the Set Character Set drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is

contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS468I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A GRAPHICS CHARACTER CODE IN A GAD STRUCTURED FIELD IS UNDEFINED OR UNAVAILABLE IN THE CURRENT CHARACTER SET.**

Explanation: A graphics character code in a Character String drawing order is undefined or points to a character pattern that is not available in the character set specified in the Set Character Set drawing order. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current

data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS469I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE SYMBOL SET SPECIFIED IN A SET CHARACTER SET DRAWING ORDER IN A GAD STRUCTURED FIELD DOES NOT HAVE THE CHARACTER ATTRIBUTES SPECIFIED IN THE GDD STRUCTURED FIELD.

Explanation: The symbol set specified in a Set Character Set drawing order cannot support the functions of the character attributes specified in the corresponding Graphics Data Descriptor (GDD) structured field. The drawing order is in a Graphics Data (GAD) structured field. The GAD and GDD structured fields are in a graphics object. The graphics object might be contained in a MO:DCA document, or an overlay, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the

structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS470I   THE OVERLAY NESTING LIMIT OF THE PRINTER WAS EXCEEDED.

Explanation: Because of excessive page segment nesting in a page, insufficient storage prevents processing of an overlay or page segment.

System action: The printer you were using might try to print the page in error, or might print only part of the page. If the page containing the error contains any positioning errors, print-error markers might be included on the printed page. PSF stops processing and printing the data set.

User response: If the printed output is not acceptable, use smaller or fewer page segments in the overlay.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS471I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE OBJECT AREA ORIENTATION PARAMETER IS NOT VALID IN AN OBP STRUCTURED FIELD.

Explanation: If you are printing bar code objects, graphics objects, or image objects, the Object Area Orientation parameter in an Object Area Position (OBP) structured field contains an incorrect value. The OBP structured field is in the Object Environment Group of the bar code, graphics, or image object.

If the bar code is specified with a BARCODE subcommand in a page definition, the text orientation on the Line Descriptor (LND), Record Descriptor (RCD), or XML Descriptor (XMD) is not valid.

The bar code object, graphics object, or image object might be contained or referenced in a MO:DCA document or in an overlay, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the OBP structured field.

If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the LND, RCD, or XMD structured field.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS473I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE OBJECT CONTENT ORIGIN PARAMETER IS INCORRECT OR IS UNSUPPORTED IN AN OBP STRUCTURED FIELD.

Explanation: The Object Content Origin parameter in an Object Area Position (OBP) structured field contains an incorrect or unsupported value. The OBP structured

field is in the Object Environment Group of a bar code, graphics or image object, or an object container. The bar code object might be contained in an overlay or a MO:DCA document or it might be embedded in a data set containing line data. The graphics object might be contained in a MO:DCA document, or an overlay, or it might be embedded in a data set containing line data. The object container might be contained in a MO:DCA document or an overlay, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS474I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE UNITS PER UNIT BASE SPECIFIED FOR THE OBJECT ARE INCORRECT.

Explanation: The unit value in one of these structured fields is incorrect:

- For a bar code object, the L-Units per Unit Base parameter in a Bar Code Data Descriptor (BDD) structured field or object area descriptor (OBD) or in the IOB that included the object
- For a graphics object, the L-Units per Unit Base field in the Window Specification self-identifying parameter in a Graphics Data Descriptor (GDD) structured field or object area descriptor (OBD) or in the IOB that included the object

- For an image object, the Image Points per Unit Base parameter in an Image Data Descriptor (IDD) structured field or object area descriptor (OBD) or in the IOB that included the object

If the IM1 image resolution within the IID structured field does not match the printer resolution, PSF attempts to convert the IM1 image to IOCA, if the printer supports IOCA. During this conversion process IM1 structured fields are converted to IOCA IPDS commands. Because IM1 structured fields do not contain L-Units per Unit Base parameters, the L-Units are determined from the PGD used for the page. The bar code, graphics or image object might be contained in a MO:DCA document, an overlay, or a page segment, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS475I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE X OR Y EXTENT SPECIFIED FOR THE OBJECT IS NOT VALID.

Explanation: The X or Y extent value in one of these structured fields is incorrect:
- For a bar code object, the X and Y extent fields in a Bar Code Data Descriptor (BDD) structured field or object area descriptor (OBD) or in the IOB that included the object

- For a graphics object, the Window Coordinates field in the Window Specification self-identifying parameter in a Graphics Data Descriptor (GDD) structured field or object area descriptor (OBD) or in the IOB that included the object
- For an image object, the Image Size parameter in an Image Data Descriptor (IDD) structured field or object area descriptor (OBD) or in the IOB that included the object
- For a data object, the Xoa and Yoa extent fields in an Object Area Descriptor (OBD) structured field or the IOB that included the object

The bar code, graphics or image object might be contained in a MO:DCA document, an overlay, or a page segment, or it might be embedded in a data set containing line data.

If the bar code is specified with the BARCODE subcommand in a page definition, the values specified for the WIDTH parameter, the HEIGHT parameter, or both on the active PAGEFORMAT command or PAGEDEF command are not valid or are unsupported.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the object or you created the page definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS476I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE HORIZONTAL COORDINATE FOR THE IMAGE BLOCK ORIGIN PARAMETER IS OUT OF RANGE IN AN IOC STRUCTURED FIELD.

Explanation: The Horizontal Coordinate for the Image Block Origin parameter is out of range in an Image Output Control (IOC) structured field. The value is specified in absolute X-units. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS477I   AN ATTEMPT WAS MADE TO PRINT AN OBJECT OUTSIDE OF THE VALID PRINTABLE AREA.

Explanation: An attempt was made to print a bar code, graphics, or image object outside of the valid printable area. The valid printable area is the intersection (common space) of the physical page with one of these:
• The logical page
• The overlay

• The user-printable area defined within the logical page

Data in an image, graphics, or bar code object falls at least partly outside of the valid printable area.

The logical page size is defined in the Page Descriptor (PGD) structured field. The logical page origin is defined in the Page Position (PGP) structured field. The PGD structured field can be in the MO:DCA data, in an overlay, or in a page definition. The PGP structured field is in a form definition.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: Ensure that the correct form was loaded in the printer. If it was, change one of these specifications:
• The logical page size in the MO:DCA data, overlay, or page definition
• The logical page origin in the form definition
• The object origin in the Object Area Position (OBP) structured field in the object
• The object size in the Object Area Descriptor (OBD) structured field in the object

If all of the specifications seem correct, the error might be a PSF or printer logic error. Notify your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS478I   AN ATTEMPT WAS MADE TO PRINT AN OBJECT OUTSIDE OF THE VALID PRINTABLE AREA.

Explanation: An attempt was made to print a bar code, graphics, or image object outside of the valid printable area. The valid printable area is the intersection (common space) of the physical page with one of these:
• The logical page

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- The overlay
- The user-printable area defined in the logical page

Data in an image, graphics, or bar code object falls at least partly outside of the valid printable area.

The logical page size is defined in the Page Descriptor (PGD) structured field. The logical page origin is defined in the Page Position (PGP) structured field. The PGD structured field can be in the MO:DCA data, in an overlay, or in a page definition. The PGP structured field is in a form definition.

If the IM1 image resolution within the IID structured field does not match the printer resolution, PSF attempts to convert the IM1 image to Image Object Content Architecture (IOCA) (if the printer supports IOCA). During this conversion process, IM1 structured fields are converted to IOCA Intelligent Printer Data Stream (IPDS) commands. IM1 images that fall outside of the logical page would cause this error.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: Ensure that the correct form was loaded in the printer. If it was, change one of these specifications:

- The logical page size in the MO:DCA data, overlay, or page definition
- The logical page origin in the form definition
- The object origin in the Object Area Position (OBP) structured field in the object
- The object size in the Object Area Descriptor (OBD) structured field in the object

If all of the specifications seem correct, the error might be a PSF or printer logic error. Notify your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS479I PRINTER (*prtnnnn*) IS UNUSABLE—NOT ASSIGNED TO THIS SYSTEM.

Explanation: PSF attempted to issue I/O to the printer, but the printer was not assigned (reserved) to this system. The printer multi-host feature was enabled, which causes the printer to enforce that only one system can use the printer at a time. The printer detected and reported the error with an action code X'24' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF issues this message and ends with an abend 024 RCE34 or abend 024 RCE36.

System programmer response: If you do not need to share the printer among multiple PSF for z/OS hosts, disable the multi-host feature at the printer console. For more information concerning the sharing of a printer among multiple PSFs, refer to *PSF for z/OS: Customization*.

Operator Response: Determine which system the printer should be assigned to and, when available, vary the printer online to the system. This action might require the printer be varied offline from another system. Restart PSF.

Problem determination: Item 1.

APS480I THE ERROR SENSE BYTES 0–7 = *error sense bytes 0—7*, SENSE BYTES 8–18 = *error sense bytes 8–18*, SPECIFICATION GROUP = *specification group*, PAGE IDENTIFIER = *page identifier*.

Explanation: This message formats and presents the 24 printer sense bytes that were reported to PSF at the time of an I/O error. A message describing the specific I/O error accompanies this message.

- *error sense bytes 0—7* are the first eight bytes in the sense data, reported in hexadecimal.
- *error sense bytes 8—18* are the next 11 bytes in the sense data, reported in hexadecimal.
- *specification group* is byte 19 of the sense data (reported in hexadecimal), which identifies the group number for specification check exceptions.
- *page identifier* is the last four bytes in the sense data (reported in hexadecimal), which identify the page containing the error.

System action: See the accompanying messages for the system action that was taken.

User response: See the specific error conditions described in the accompanying messages to determine an appropriate response.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

System programmer response: If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Problem determination: Items 2, 17, 27.

APS481I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN ARC DRAWING ORDER IN A GAD STRUCTURED FIELD CAUSED AN ARC ENDING ERROR.

Explanation: A Full Arc or Full Arc at Current Position drawing order has an error in its coordinate values, so that the starting and ending points of the arc are identical. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS482I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN ARC DRAWING ORDER IN A GAD STRUCTURED FIELD CONTAINS ERRORS.

Explanation: A Full Arc or Full Arc at Current Position drawing order has an error in its coordinate values, so that it might not be possible to draw the arc within the normal limits of pel accuracy. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS483I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN END IMAGE DRAWING ORDER IS MISSING FROM A GAD STRUCTURED FIELD.

Explanation: A Begin Image drawing order was processed in a graphics segment, and the end of the segment was reached before an End Image drawing order was encountered. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The

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graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS484I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.

Explanation: A Begin Image drawing order was processed in a graphics segment, and a drawing order that is not allowed to follow that drawing order was encountered. The drawing orders are contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS485I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE IMAGE FORMAT SPECIFIED IN A BEGIN IMAGE DRAWING ORDER IN A GAD STRUCTURED FIELD IS NOT SUPPORTED.

Explanation: The Image Format value specified in a Begin Image drawing order is not supported. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to

PSF for z/OS: Diagnosis for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS486I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE IMAGE WIDTH SPECIFIED IN A BEGIN IMAGE DRAWING ORDER IN A GAD STRUCTURED FIELD IS TOO LARGE.**

Explanation: The Image Width value specified in a Begin Image drawing order exceeds the maximum supported image width. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS487I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE IMAGE HEIGHT SPECIFIED IN A BEGIN IMAGE DRAWING ORDER IN A GAD STRUCTURED FIELD IS TOO LARGE.**

Explanation: The Image Height value specified in a Begin Image drawing order exceeds the maximum supported image height. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS488I **AN ATTEMPT WAS MADE TO DRAW A LINE OUTSIDE OF THE GRAPHICS PRESENTATION SPACE.**

Explanation: A Relative Line or Relative Line at Current Position drawing order attempted to draw a line outside of the graphics presentation space. The graphics presentation space is a two-dimensional conceptual space in which the graphics data is generated. The space is then mapped onto an output medium. The extent of the graphics presentation space is –32K to +32K units. The end points of the line are

defined in the drawing order. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS489I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A SEGMENT CHARACTERISTICS DRAWING ORDER IS OUT OF SEQUENCE IN A GAD STRUCTURED FIELD.**

Explanation: A Segment Characteristics drawing order was encountered outside of a segment prolog. The drawing order is contained in a Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error,

unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the graphics object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the graphics object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the graphics object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS490I **THE ERROR SENSE BYTES 0–2 =** *error sense bytes* **0–2.**

Explanation: This message presents the 3 printer sense bytes that were reported to PSF at the time of an I/O error.

System action: See the accompanying messages for the system action that was taken.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages. If the accompanying messages are not sufficient to identify the problem, consult your system programmer.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages. If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error. If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before consulting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

**APS491I THE PRINT QUALITY LEVEL
SPECIFIED IN THE FORMDEF CANNOT
BE PROVIDED BY THE SELECTED
FONT.**

Explanation: The font selected to print the data
cannot provide the print quality level specified in the
Medium Modification Control (MMC) structured field.
The MMC structured field is in the form definition. The
selected font is specified in the MO:DCA data, page
definition, or overlay, or with the JCL CHARS option. If
no font was explicitly specified, the default printer font
was being used.

System action: PSF stops processing and printing the
page.

User response: If the print quality and font used by
the printer are acceptable, no response is necessary. If
the specified print quality level is required, select a font
that can be printed at that print quality level, and
resubmit the print request. If the selected font is
required, specify a print quality level in the form
definition that is supported by that font, and resubmit
the print request. To determine the print quality level
that each font supports, refer to *Printer Information* and
printer publications.

System programmer response: If the error involves
separator pages or the message data set, use the
information provided in the User Response section to
correct the error.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page or
the message data set in the PSF startup procedure.
Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

**APS492I DATA IN AN INPUT RECORD OR
RESOURCE IS NOT VALID: THE
SPECIFIED FONT CANNOT BE
PRINTED IN THE SPECIFIED
ORIENTATION.**

Explanation: This error was caused by one of these:

• A Set Coded Font Local (SCFL) text control in a
Presentation Text Data (PTX) structured field named
a font that was not available in the printer in the
orientation specified in a Set Text Orientation (STO)
text control.

• An STO text control, when combined with the current
print direction, results in a print direction that the
printer does not support.

• Because of a PSF logic error, the requested font is
not available in the printer in the specified orientation.

The STO text control is embedded in a PTX structured
field or was generated by PSF from a page definition.
The Presentation Text Data (PTX) structured field might

be contained in a MO:DCA document, an overlay, or a
page segment; or it might be embedded in a data set
containing line data.

System action: PSF stops the processing and printing
of the page.

User response: If you created the structured fields for
the print data set or the resource, correct the error and
resubmit the print request. Refer to *Mixed Object
Document Content Architecture Reference* for more
information about the structured field. If the structured
field has no error, the error might be a PSF logic error.
If you used a program to create the structured fields for
the print data set or the resource, contact your system
programmer.

System programmer response: If an IBM licensed
program was used to create the structured fields for the
print data set or the resource with the error, verify that
the input to that program was valid. If the input was
valid, refer to *PSF for z/OS: Diagnosis* for assistance in
determining the source of the problem.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page or
the message data set in the PSF startup procedure.
Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

**APS493I AN ATTEMPT WAS MADE TO USE A
RESIDENT SYMBOL SET OR
RESIDENT FONT THAT IS NOT VALID
OR IS NOT SUPPORTED BY THIS
PRINTER.**

Explanation: A resident symbol set or resident font
specified for this print data set is not valid, or is not
supported by this printer. The name of the symbol set or
font could have been specified in the JCL CHARS
parameter or in a Map Coded Font (MCF) structured
field. The MCF structured field is contained in a
MO:DCA document, an overlay, or a page definition.

PSF uses the PSF Resident Font Table (APSRFTBL) to
map the font or symbol set name to a Global Resource
Identifier (GRID), which is then used to identify the font
or symbol set in the printer. The symbol set or font was
defined in APSRFTBL, but was not recognized by the
printer.

System action: PSF stops the processing and printing
of the page.

User response: Inform your system programmer that
this error occurred.

System programmer response: If necessary, modify
the entry in the APSRFTBL for the symbol set or font
named by the print-job submitter. Ensure that the
requested font or symbol set is mapped to a valid
GRID. If the current entry seems to be valid, follow the
procedures described in *PSF for z/OS: Diagnosis* before

contacting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS494I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE IMAGE BLOCK ORIGIN IS INCORRECT OR IS UNSUPPORTED IN AN IOC STRUCTURED FIELD.**

Explanation: The X-coordinate or Y-coordinate for the Image Block Origin is not valid, or is unsupported in an Image Output Control (IOC) structured field. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content Architecture (IOCA), PSF might have converted your IOCA image to an IM1 image. In this case, the incorrect value is in the OBP structured field.

System action: If the image is in a page, the printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS495I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE VERTICAL COORDINATE FOR THE IMAGE BLOCK ORIGIN PARAMETER IS OUT OF RANGE IN AN IOC STRUCTURED FIELD.**

Explanation: The Vertical Coordinate for the Image Block Origin parameter is out of range in an Image Output Control (IOC) structured field. The value is specified in absolute Y-units. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It can also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS496I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE COMPRESSION ALGORITHM SPECIFIED IN AN IPD STRUCTURED FIELD WAS UNSUCCESSFUL IN DECOMPRESSING THE IMAGE DATA.**

Explanation: The Compression Identifier specified in the Image Encoding parameter of an Image Picture Data (IPD) structured field could not be successfully used to decompress the image data due to one of these reasons:

- The image data was not encoded according to the compression or recording algorithm specified in the Image Encoding parameter.
- The image data could not be decoded successfully using the size values specified in the Image Size parameter. This condition applies to compression or recording algorithms that do not permit the image size to be encoded in the image data.
- The image data was not in complete accordance with the compression algorithm specified in the Image Encoding parameter.
- The image data is encoded using the algorithm specified in the Image Encoding parameter, but uses a function of the algorithm that is unsupported by the receiver.

The IPD structured field is contained in an image object. The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 8, 13, 17, 27.

APS497I   DATA IN A FONT RESOURCE IS NOT VALID: THE DOUBLE-BYTE FONT SPECIFIED MICR PRINTING IN SOME, BUT NOT ALL, FONT SECTIONS.

Explanation: MICR printing was specified for one section of a double-byte font, but not all sections of that font. If the intended-use flags for one section of a double-byte font specify MICR printing, MICR printing must be specified for all sections of that font.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If the MICR font was supplied by IBM, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center. If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS498I   ORDERED DATA WAS SPECIFIED FOR THE PAGE, BUT UNORDERED DATA WAS RECEIVED.

Explanation: PSF indicated that the data on the page was ordered, but the data received by the printer was not ordered. Ordered data is defined to PSF by specifying PRMODE=LINE on the OUTPUT statement JCL when submitting the job. This error can occur only on printers that support ordered data. For more information, refer to *Printer Information*. This error occurs if ordered data was indicated to PSF and a structured field other than IDM or IMM was included with the line-data records on a page.

System action: The APS858I message following this message defines the system action.

User response: If you specified PRMODE=LINE on the OUTPUT statement JCL when you submitted the job, resubmit the job without specifying PRMODE=LINE, or remove all structured fields other than IDM and IMM from the line-data records and resubmit it. If you did not specify PRMODE=LINE, or if you do not have structured fields included with your line-data records, the error might be a PSF or printer logic error; consult your system programmer.

System programmer response: If the error involves

the separator page or the message data set, this might be a PSFor printer logic error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Notify your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS499I   DATA IN AN INPUT RECORD IS NOT VALID: THE ORIENTATION FIELD IN AN INCLUDE PAGE OVERLAY COMMAND CONTAINS AN INCORRECT ID VALUE.

Explanation: The OvlyOrent field in the Include Page Overlay (IPO) command has an incorrect value. The IPO structured field is contained in a MO:DCA document.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS500I   THE *library resource type* SYSTEM LIBRARY WAS NOT SPECIFIED.

Explanation: The ddname on the DD statement in the PSF startup procedure did not specify a library type for the resources specified in the current print request.

Library resource type can be:

| FONT
| FONTPATH
| FORMDEF
| OBJECT CONTAINER/OCA
| OBJECT CONTAINER PATH
| OVERLAY
| PAGEDEF
| SECURITY DEFINITIONS
| SECURITY FONT
| SECURITY OVERLAY
| SECURITY SEGMENT/OCA
| SEGMENT/OCA

System action: For the system action taken, see the accompanying messages.

User response: Inform your system programmer that this error occurred.

System programmer response: The keyword for referencing a library type has not been specified on the PRINTDEV statement—for example, FONTDD=ddname, PSEGDD=ddname. Specify all library types needed for this print request. For information on how to code a PRINTDEV statement, refer to *PSF for z/OS: Customization*. If the installation procedure for this writer indicates that these messages are expected, no action is necessary.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS501I   THE DYNAMIC ALLOCATION FUNCTION WAS UNSUCCESSFUL — RETURN CODE *xxxx*, REASON CODE *xxxx*.

Explanation: An attempt to use an SVC 99 instruction in performing the dynamic allocation of the user libraries associated with this data set was made, but was unsuccessful.

System action: PSF cannot print the current data set. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: Verify that the data sets specified in the USERLIB keyword of the print job JCL are correctly specified and cataloged on the system. If the data sets are correctly specified, notify your system programmer of this error.

System programmer response: Use the return code and reason code to determine the cause of the error and an appropriate response. For information about the SVC 99 return and reason codes, refer to *z/OS MVS Diagnosis: Tools and Service Aids*.

Operator Response: No response is necessary.

Problem determination: Items 1, 4, 9, 14, 17, 19.

APS502I   *resource type* **IN THE SYSTEM LIBRARY CANNOT BE ACCESSED BECAUSE THE** *library resource type* **LIBRARY WAS NOT SPECIFIED ON THE PRINTDEV STATEMENT. PLEASE INFORM YOUR SYSTEM PROGRAMMER.**

Explanation: The ddname on the DD statement in the procedure to start PSF did not specify a library for the resources specified in the current print request. The error could be caused by one of these:

- A library required for the PSF startup procedure has not been specified on the PRINTDEV statement.
- The incorrect PSF startup procedure was started.
- The PSF startup procedure was modified to accept an incorrect job class.
- The print request specified an incorrect job class.
- When using multiple resolution, a FONTDD, PSEGDD, or OVLYDD default was not included on the PRINTDEV statement.
- A FONTDD, PSEGDD, or OVLYDD default was not included on the PRINTDEV statement when using multiple resolutions.

The *resource type* identifies one of these libraries that contains the error:

```
CODED  FONT  RESOURCE
CODE  PAGE  RESOURCE
COLOR  MANAGEMENT  RESOURCE
DATA  OBJECT  FONT  RESOURCE
FONT  CHARACTER  SET  RESOURCE
FORM  DEFINITION  RESOURCE
OBJECT  CONTAINER/OCA  RESOURCE
OVERLAY  RESOURCE
PAGE  DEFINITION  RESOURCE
PAGE  SEGMENT/OCA  RESOURCE
SECURITY  DEFINITIONS  RESOURCE
```

The *library resource type* can be:

```
FONT
FONTPATH
FORMDEF
OBJECT  CONTAINER/OCA
OBJECT  CONTAINER  PATH
OVERLAY
PAGEDEF
SECURITY  DEFINITIONS
SECURITY  FONT
SECURITY  OVERLAY
SECURITY  SEGMENT/OCA
SEGMENT/OCA
```

System action: For the system action taken, see the accompanying messages.

User response: Ensure that the resource name is spelled correctly. Also, ensure that the print request was routed to the correct output class. If the resource name

and print class are correct, notify your system programmer.

System programmer response: The library indicated in this message must be specified on the PRINTDEV statement in the procedure used to start PSF. If the installation procedure for this writer indicates that these messages are expected, no action is necessary. For information on how to code a PRINTDEV statement, refer to *PSF for z/OS: Customization*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS503I   **THE DYNAMIC CONCATENATION FUNCTION WAS UNSUCCESSFUL — RETURN CODE** *xxxx***, REASON CODE** *xxxx***.**

Explanation: An attempt to use an SVC 99 instruction to perform the dynamic concatenation of the user libraries associated with this data set was made, but was unsuccessful.

System action: PSF cannot print the current data set. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: Inform your system programmer that this error occurred.

System programmer response: Use the return code and the reason code to determine the cause of the error and an appropriate response. For information about the SVC 99 return and reason codes. refer to *z/OS MVS Diagnosis: Tools and Service Aids*.

Operator Response: No response is necessary.

Problem determination: Items 4, 9, 14, 17, 20.

APS504I   **YOU ARE NOT AUTHORIZED BY RACF TO ACCESS USERLIB** *userlibname***.**

Explanation: The authority that is required in order for you to access the specified user library is not present. Access to USERLIB is denied.

System action: PSF cannot print the current data set. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: Ask the security administrator to arrange permission for you to access the indicated library.

System programmer response: Determine whether the user should be authorized to access the indicated library. If so, use RACF to give the user the appropriate authorization. For more information, refer to the RACF

publications for your operating system.

Operator Response: Notify the security administrator of this error. For a command to release the data set for printing after the problem has been corrected, see the publication containing JES operator commands for your operating system.

Problem determination: Items 2, 14, 17, 19.

APS505I   A VIRTUAL STORAGE REQUEST WAS UNSUCCESSFUL — REQUEST SIZE (storage request size**), GETMAIN RETURN CODE** return code**. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.**

Explanation: A GETMAIN macro attempted to obtain virtual storage, but was unsuccessful. After returning from the GETMAIN macros, register 15 contained a nonzero return code. This message indicates the storage size requested and the return code from the system GETMAIN macro.

System action: For the system action taken, see the other messages associated with this error.

User response: If the error occurs when PSF tries to print your print request, resubmit the print request. If the error persists, contact your system programmer.

System programmer response: Increase the REGION parameter on the PSF startup procedure, and restart PSF. To interpret the GETMAIN return code, refer to *z/OS MVS Diagnosis: Tools and Service Aids*.

Operator Response: If the error occurs during PSF initialization, inform your system programmer.

Problem determination: Items 1, 4, 9, 17, 19.

APS506I   THE LIBRARY DATA SET ORGANIZATION IS NOT VALID. IT MUST BE SPECIFIED AS A PARTITIONED DATA SET.

Explanation: The data set organization specified in a library is not valid because it is not defined as a partitioned data set.

System action: For the system action taken, see the other messages associated with this error.

User response: Inform your system programmer that this error occurred.

System programmer response: Specify the organization in the Data Set Organization (DSORG) field of the data control block as partitioned, PO; or partitioned with location-dependent information, POU. For more information about defining a library, refer to *PSF for z/OS: Customization*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS507I   THE LIBRARY RECORD FORMAT IS NOT VALID. PLEASE INFORM YOUR SYSTEM PROGRAMMER.

Explanation: The library has an incorrect record format. In the security definitions library, the record format (RECFM) field of the data control block (DCB) must be set to fixed F, or fixed-block FB. Control characters and track overflow must not be specified. The LRECL must be 80. For the Object container library, the RECFM field of the (DCB) must be set to variable V, or variable-blocked VB, with or without control characters. For all other library data sets, the RECFM must be specified with control characters as variable-unblocked V, or variable-blocked VB. The other messages associated with this error identify the library.

System action: See the accompanying messages explaining the error.

User response: Inform your system programmer that this error occurred.

System programmer response: Change the format of the library to the appropriate format for this library and restart PSF. For more information about defining a library, refer to *PSF for z/OS: Customization*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS508I   THE CONVERSION FOR THE device **FROM EBCDIC TO UTF-16 FAILED.**

Explanation: PSF encountered an error converting the *device* from EBCDIC to UTF-16, where *device* is the device type or device model. PSF uses the device type and device model to match to device-specific CMRs. PSF cannot obtain and download the device-specific CMRs to the printer. The printer might try to find a device-specific CMR, which degrades performance.

System action: PSF continues processing the print file.

User response: If this message is accompanied by Unicode conversion failure messages, APS4400I – APS4403I, inform your system programmer that these errors have occurred.

System programmer response: Make sure the z/OS system is properly enabled for Unicode data transforms and that the proper transforms, both to and from, have been initialized. Refer to *PSF for z/OS: Customization* for more information about setting up the ZCONV facility.

If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was correct. If the input was correct, refer to *PSF for z/OS: Diagnosis* for

| assistance in determining the source of the problem.

| **Operator Response:** If this message is accompanied
| by Unicode conversion failure messages, APS4400I –
| APS4403I, inform your system programmer that these
| errors have occurred.

| **Problem determination:** Items 2, 8, 17, 18, 19.

APS509I   **THE INVOCATION OF CEEPIPI TO**
INVOKE A RAU FUNCTION FAILED
WITH RETURN CODE *return code***.**

Explanation: A nonzero return code was received
from this invocation of CEEPIPI to invoke a RAU
function as a subroutine. Return codes associated with
this message are:

Return
Code   **Explanation**

04   The function code is not valid.

08   CEEPIPI was called from a Language
Environment-conforming HLL.

12   The indicated environment was initialized for
main routines. No routine was run.

16   The token is not valid.

20   The index points to an entry that is not valid or
is empty.

24   The index passed is outside the range of the
table.

28   This value indicates the enclave was stopped
while the process was retained. This can occur
if a STOP statement is issued or if there is an
unhandled condition. The *sub_ret_code,*
sub_reason_code, and *sub_feedback_code*
indicate this action.

For more information on this invocation of CEEPIPI and
its return codes, refer to *z/OS Language Environment*
Programming Guide.

System action: If the error occurred on a system
library, PSF processing stops abnormally with an abend
024 and abend reason code 094F. If the error occurs on
a user library, PSF continues processing.

User response: No response is necessary.

System programmer response: If the problem cannot
be diagnosed from the return code, contact the IBM
Support Center.

Operator Response: Inform your system programmer
that this error occurred.

Problem determination: Items 1, 17, 19, 27.

APS510I   **THE INITIALIZATION OF THE RAU**
FAILED WITH RETURN CODE *return*
*code***.**

Explanation: The Resource Access Utility failed to
initialize. The return codes associated with this message
are:

Return
Code   **Explanation**

10   The storage allocation failed.

90   The handle parameter is null.

System action: If the error occurred on a system
library, PSF processing stops abnormally with an abend
024 and abend reason code 094D. If the error occurs
on a user library, PSF continues processing.

User response: No response necessary.

System programmer response: If the problem cannot
be diagnosed from the return code, contact the IBM
Support Center.

Operator Response: Inform your system programmer
that this error occurred.

Problem determination: Items 1, 17, 19, 27.

APS511I   **THE RAU FAILED TO ADD PATH NAME**
path name **TO THE PATH NAME**
SEARCH ORDER — RETURN CODE =
*return code***.**

Explanation: The Resource Access Utility (RAU) failed
to add the specified path name to the PSF path name
search order. The return codes associated with this
message are:

Return
Code   **Explanation**

5   Resource access table (RAT) has reached
end-of-file (EOF).

10   The storage allocation failed.

15   Entry in the RAT is not valid.

20   The specified path name does not have a RAT.

25   The RAT is empty.

30   The RAU handle parameter is not valid.

System action: If the error occurred on a system
library, PSF processing stops abnormally with an abend
024 and abend reason code 0950. If the error occurs on
a user library, PSF continues processing.

User response: If this error occurs for a USERPATH
library and you get return code of 20, then you have an
incorrect path name, the path name is misspelled, or
the path name specified does not have a RAT.

System programmer response: If the problem cannot

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be diagnosed from the return code, contact the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 19, 27.

APS512I   *resource type* **WITH RESOURCE NAME** *resource name* **WAS NOT FOUND.**

Explanation: A request to the Resource Access Utility to find the specified resource was unsuccessful or the BPX1ACC (z/OS UNIX System Services Access Function) failed to access the resource file. The resource type is COLOR MANAGEMENT RESOURCE, DATA OBJECT FONT RESOURCE, or OBJECT CONTAINER/OCA RESOURCE.

System action: If the error occurs during initialization, PSF ends. PSF issues other messages identifying the processing environment in which the error was found. Additional system action messages are also issued.

If the error occurs during processing, refer to the system action messages to determine whether PSF stops processing the page (MSGAPS100I), or whether PSF stops printing the data set (MSGAPS101I).

User response: You might have sent your job to the wrong printer, or you might have sent it to the right printer but used the wrong resource name. You might not have set the permissions correctly on the file name, so PSF cannot access the file. If the resource should exist with the name identified in the message, contact your system programmer.

System programmer response: Verify that the resource with the name identified exists in a FONTPATH or USERPATH library and that PSF has permission to access the file.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS513I   *resource type* **WITH FILE NAME** *file name* **AND RESOURCE NAME** *resource name* **COULD NOT BE OPENED. THE OPEN REQUEST FAILED WITH RETURN CODE** *return code* **AND REASON CODE** *reason code*.

Explanation: A BPX1OPN request was issued to open the identified file. BPX1OPN returned the return code and reason code in the message. The resource type is COLOR MANAGEMENT RESOURCE, DATA OBJECT FONT RESOURCE, or OBJECT CONTAINER/OCA RESOURCE.

Common return codes associated with this message are:

111	Permission has been denied to access the file or directory.
129	The file or directory you are trying to access does not exist.
133	The UNIX file system is out of storage.

System action: If the error occurs during initialization, PSF ends. PSF issues other messages identifying the processing environment in which the error was found. Additional System Action messages are also issued.

If the error occurs during processing, refer to the System Action messages to determine whether PSF stops processing the page (MSGAPS100I), or whether PSF stops printing the data set (MSGAPS101I).

User response: You might have sent your job to the wrong printer, you might have sent it to the right printer but used the wrong resource name, or you might not have set the permissions correctly so PSF cannot access the file. If the resource should exist with the name identified in the message, contact your system programmer.

System programmer response: Determine the appropriate response by interpreting the return code and the reason code. Verify that PSF has permission to access the file and that the system Conversion Facility has been set up. To interpret the return code and the reason code, refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS514I   **THE GETDSAB SYSTEM MACRO HAS NOT BEEN INSTALLED ON THE SYSTEM.**

Explanation: PSF tried to use the GETDSAB macro to process the system path libraries, but the GETDSAB macro is not installed on the system.

System action: PSF processing stops abnormally with an abend 024 and abend reason code 0939.

User response: Inform your system programmer that this error occurred.

System programmer response: Verify that the GETDSAB system macro is installed on the system where the printer was started.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 17, 19.

APS515I   INSUFFICIENT VIRTUAL STORAGE WAS AVAILABLE FOR BUFFERING OF INLINE RESOURCES.

Explanation: The GETMAIN MACRO attempted to obtain space for the inline resource buffers, but was unsuccessful; or an inline resource approached 1 GB in size (a gigabyte is 1,073,741,824 bytes).

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: Determine whether unnecessary inline resources might be deleted from the input data stream, or if you have an inline resource that approaches 1 GB in size (maximum size supported by PSF). If no resources can be deleted or none are near 1 GB in size, contact your system programmer.

System programmer response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17.

APS516I   MESSAGES WERE LOST BECAUSE NOT ENOUGH VIRTUAL STORAGE WAS AVAILABLE.

Explanation: PSF could not obtain enough virtual storage for its control blocks or buffers. The REGION parameter on the startup procedure might be too small.

System action: If no other fatal errors are encountered, the print request is processed. The message that was being processed when the error occurred is lost.

User response: Correct the print request in response to the accompanying messages. If the error persists, notify your system programmer.

System programmer response: If necessary, the size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS517I   MESSAGES WERE LOST BECAUSE THE BUFFER LIMIT WAS EXCEEDED.

Explanation: The maximum number of buffers allocated for writing messages was exceeded. The message that was being processed when the error occurred is lost.

System action: Processing of the data set continues.

User response: Correct the print request in response to the other messages associated with this error. Resubmit the print request.

System programmer response: No response is necessary.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS518I   RECOVERY IS {IN PROGRESS | SUCCESSFUL | UNSUCCESSFUL} FOR A LIBRARY EXTENT ERROR.

Explanation: A recovery from an extent error that occurred for a library either is in progress, or has been successfully or unsuccessfully completed. PSF recovers from this error by closing and then opening the library to obtain the new extents. This error occurs when the library is updated. The update causes more extents to be added after PSF has opened the library for processing.

System action: If the recovery was unsuccessful, PSF produces an abend. If the recovery was successful, processing continues. No response is necessary.

User response: If the recovery was unsuccessful, notify your system programmer.

System programmer response: If recovery was unsuccessful, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center. See the other error messages for the PSF abend reason codes and system completion codes associated with this error.

Operator Response: If the recovery was unsuccessful, notify your system programmer.

Problem determination: Items 1, 2, 3, 4, 9, 11, 15a, 15b, 17, 21b.

APS519I   THE PRINTER DID NOT PROVIDE A DEVICE TYPE AND MODEL IN THE XOH OPC RESPONSE. THE DEVICE TYPE AND MODEL ARE REQUIRED FOR CMR SUPPORT.

Explanation: The printer has not provided a device type and model in the XOH Obtain Printer Characteristics (OPC) response. PSF uses the device type and device model to match to device-specific

| CMRs. PSF cannot obtain and download the
| device-specific CMRs to the printer. The printer might
| try to find a device-specific CMR, which degrades
| performance.

| **System action:** PSF continues processing the print
| file.

| **User response:** Inform your system programmer that
| this error has occurred.

| **System programmer response:** Refer to your printer
| documentation for information about setting the device
| type and model.

| **Operator Response:** Inform your system programmer
| that this error has occurred.

| **Problem determination:** Items 2, 8, 17, 18, 19.

APS520I   **SYSTEM FUNCTION** *system function*
             WAS UNSUCCESSFUL — RETURN
             CODE *return code*. **PLEASE INFORM**
             YOUR SYSTEM PROGRAMMER.

Explanation: The system function initiated by the
system function macro was unsuccessful. After returning
from the *system function* macro, register 15 contained a
nonzero return code. The *system function* can be
BPX1RED.

| Common return codes associated with this message
| are:

| **111**   Permission has been denied to access the file
| or directory.

| **129**   The file or directory you are trying to access
| does not exist.

| **133**   The UNIX file system is out of storage.

System action: For the system action taken, see the
other messages associated with this error.

User response: Inform your system programmer that
this error occurred.

System programmer response: Correct the problem
in response to the system return code identified in this
message. The return code is from the system function
that was used. Refer to *z/OS UNIX System Services
Programming: Assembler Callable Services Reference*
to interpret the return code.

Operator Response: Inform your system programmer
that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS522I   **A READ ERROR WAS DETECTED.**
             SYNADAF TEXT = *text name*. **PLEASE**
             INFORM YOUR SYSTEM
             PROGRAMMER.

Explanation: A physical error occurred on a READ
macro request. The text of this message is in the format
produced by the SYNADAF macro.

System action: For the system action taken, see the
other messages associated with this error.

User response: Inform your system programmer that
this error occurred.

System programmer response: Determine the cause
of the error, using the SYNADAF text provided in this
message. For information about the format of the
SYNADAF text, refer to *z/OS DFSMS Macro
Instructions for Data Sets*.

Operator Response: Inform your system programmer
that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS523I   **AN OBJECT CONTAINS ADDITIONAL**
             RECORDS IN BLOCK *block*, **RECORD**
             record, **THAT WERE NOT PROCESSED.**
             THE PRINTED OUTPUT MAY BE
             ACCEPTABLE.

Explanation: The last record of the resource had been
processed; however, the objects contained more
records, which were not processed.

The *block* identified in this message contains the record
identified in this message. The *record* contains the
additional data. If the resource is stored in
variable-unblocked format, the record number is always
1.

System action: Processing of the data set continues.
The additional data in the identified record is not
processed.

User response: If you created the structured fields for
the resource, correct the error and resubmit the print
request. Refer to *Mixed Object Document Content
Architecture Reference* and *Advanced Function
Presentation: Programming Guide and Line Data
Reference* for more information about the structured
field. If the structured field has no error, the error might
be a PSF logic error. If you used a program to create
the structured fields for the resource, contact your
system programmer.

System programmer response: If an IBM licensed
program was used to create the structured fields for the
resource with the error, verify that the input to that
program was valid. If the input was valid, refer to *PSF
for z/OS: Diagnosis* for assistance in determining the
source of the problem.

Operator Response: Inform your system programmer
that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS524I   THE RAU TERMINATION FUNCTION FAILED FOR THE USERPATH LIBRARY. RETURN CODE = *return code*.

Explanation: PSF tried to end the RAU session for a print data set, but the end call failed with *return code*. PSF had a successful dialog with the RAU to locate the required TrueType and OpenType fonts, data object resources, or color management resources for this document. However, when PSF tried to end the RAU session, an error occurred. This could be caused by one of these:

- An error during an fclose of an open file. The valid return codes are:
  - EAGAIN (112)—File currently in use.
  - EBADF (113)—File does not identify a valid opened file.
  - EINTR (120)—Service was interrupted by a signal while processing the fclose request.
- A PSF or RAU logic error. The valid return code is:
  - 50—The RAU handle is not valid.

System action: PSF continues processing.

User response: Inspect the resulting print data set carefully for correctness, completeness, and other PSF messages. This condition is associated with z/OS UNIX System Services files (USERPATH parameter on the OUTPUT JCL statement) private to your print data set. If results are unsatisfactory, inform your system programmer.

System programmer response: Ensure that the z/OS UNIX System Services path specified in USERPATH were stable during PSF processing of this print data set. If the problem cannot be diagnosed from the return code, contact the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 19, 27.

APS527I   THE LIBRARY MEMBER CANNOT BE PROCESSED BECAUSE IT WAS UPDATED DURING THIS ATTEMPT TO ACCESS IT. RESUBMIT THE JOB.

Explanation: An attempt was made to obtain the remainder of a library member contained in an extent that was added after PSF was started. PSF determined that the library member was updated after being processed as a part of the current print request. Library members should not be updated while PSF is actively processing print requests, as this can cause errors.

System action: Processing of the library member ends. For further system action, see the other messages associated with this error.

User response: Resubmit the print request.

System programmer response: Ensure that library members are not updated while PSF is processing.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS532I   *resource type* WITH MEMBER NAME (*library member*) WAS NOT FOUND — RETURN CODE *return code*, REASON CODE *reason code* RETURNED FROM SYSTEM (*system function*) FUNCTION.

Explanation: A BLDL request (SVC 18) was issued to position to the requested library member. BLDL returned the return code and reason code that display in the message. *Resource type* can be:

CODED FONT RESOURCE
CODE PAGE RESOURCE
FONT CHARACTER SET RESOURCE
FORM DEFINITION RESOURCE
PAGE DEFINITION RESOURCE
PAGE SEGMENT/OCA RESOURCE
OVERLAY RESOURCE
OBJECT CONTAINER/OCA RESOURCE
SECURITY DEFINITIONS RESOURCE

System action: If the error occurs during initialization, PSF ends. PSF issues other messages identifying the processing environment in which the error was found. Additional System Action messages are also issued.

If the error occurs during processing, refer to the System Action messages to determine whether PSF stops processing the page (MSGAPS100I), or whether PSF stops printing the data set (MSGAPS101I).

User response: You might have sent your job to the wrong printer, or you might have sent it to the right printer but used the wrong resource-naming convention. For example, you might have used the coded font prefix X0 when submitting a print request to the 3800 Model 3, 6, or 8. If you have specified your resource inline, you might have placed the resource group definition out of sequence in the data stream.

If the member should exist with the name identified in the message, contact your system programmer.

System programmer response: Determine the appropriate response by interpreting the return code and the reason code. To interpret the return code and the reason code, refer to *z/OS DFSMS Using Data Sets*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

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APS535I AN INCORRECT MEMBER NAME WAS SPECIFIED FOR A LIBRARY MEMBER.

Explanation: A structured field contained a member name for an overlay or a page segment that either is null or is not a valid PSF member name. An overlay name might be specified in one of these places:

- A Map Medium Overlay (MMO) structured field in a form definition
- A Map Page Overlay (MPO) structured field in a page definition or in the MO:DCA data set

A page segment name can be specified in one of these places:

- Map Page Segment (MPS) structured field in a page definition
- Overlay
- MO:DCA data

System action: See accompanying messages for the action performed.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS537I SYSTEM FUNCTION *system function* WAS UNSUCCESSFUL. PLEASE INFORM YOUR SYSTEM PROGRAMMER.

Explanation: An OPEN or CLOSE macro was unsuccessful. One of these conditions caused this error:

- An OPEN macro request, which results in an SVC 19, was issued to open a library. After returning from the OPEN macro, PSF discovered that the data control block (DCB) had not been opened.

- A CLOSE macro request, which results in an SVC 20, was issued to close a library. After returning from the CLOSE macro, PSF discovered that the DCB had not been closed.

System action: If either the OPEN or CLOSE macro is unsuccessful, PSF ends.

User response: Inform your system programmer that this error occurred.

System programmer response: See the other messages for the PSF abend reason codes and system completion codes associated with this error.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS538I AN EXTENT ERROR WAS DETECTED: MEMBER (*member*) IS NOT WITHIN KNOWN EXTENTS: EXTENT (*extent*), BIN (*bin*), CYLINDER (*cylinder*), HEAD (*head*), RECORD (*record name*), ACCESS-METHOD (*access method*).

Explanation: An extent error occurred while PSF was preparing to process a member or read a member from a library. When this occurs, the library is closed and then reopened to obtain any extents that were added after PSF was started. Another attempt is then made to process the member.

The extent error was caused by one of these:

- An incorrect seek address caused the wrong block of data to be read from the direct access storage device (DASD).
- The relative track address was converted to a seek address that is not within the extents of this library as defined in the data extent block (DEB).
- The read address was not within the extents of this library, as defined in the DEB, when PSF attempted to read a block of data from a DASD.

The extent, bin, cylinder, head, and record fields identified in this message are given in hexadecimal and indicate either the seek or the read DASD address that is not valid.

System action: For the system action taken, see the other messages associated with this error.

User response: Inform your system programmer that this error occurred.

System programmer response: To determine the appropriate response, see the other messages associated with this error.

Operator Response: To determine the appropriate response, see the other messages associated with this error.

Problem determination: Items 1, 4, 9, 17, 19.

APS539I   AN EXTENT ERROR WAS DETECTED: MEMBER (*member***) IS NOT WITHIN KNOWN EXTENTS.**

Explanation: An extent error occurred while PSF was reading a member from a library. The error was reported to PSF by the BPAM access method. A CHECK macro was posted with a X'42', and an end-of-file was indicated.

System action: The library is closed and then reopened to obtain any extents added after PSF was started. Another attempt is then made to process the member.

User response: Inform your system programmer that this error occurred.

System programmer response: See the other messages associated with this response. To obtain a dump at the time of failure, specify Dump: Message ID APS539I in the Printer Inventory or DUMP=(,APS539I,1) in the PRINTDEV statement.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS547I   SYSTEM FUNCTION *system function* TERMINATED WITH AN ABEND — RETURN CODE *return code*, SYSTEM COMPLETION CODE *system completion code*. PLEASE INFORM YOUR SYSTEM PROGRAMMER.

Explanation: An error was detected when either the OPEN or the CLOSE macro was processing a data control block (DCB). This caused the DCB abend exit routine to receive control. The return code and the system completion code are issued by the data management problem-determination routines.

This message identified either the OPEN or CLOSE macro request as the system function that was unsuccessful.

System action: PSF processing continues. If the abend cannot be ignored, the system returns to the problem-determination routine to continue the abend.

User response: Inform your system programmer that this error occurred.

System programmer response: Use the return code and the system completion code to determine the cause of the error and an appropriate response. To interpret the return code and system completion code, refer to *z/OS MVS System Codes*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS548I   WHEN THE ERROR REPORTED ABOVE OCCURRED, THE *item* BEING PROCESSED WAS *resource type* | *library type* | ***NOT AVAILABLE***.

Explanation: This message gives information about the processing environment in which the error occurred. *Item* can be:

CONCATENATION NUMBER
DDNAME
DEFINITION TYPE
DSNAME
FILE NAME
LIBRARY TYPE
MEMBER NAME
MEMBER/TOKEN NAME
PATH NAME
RESOURCE TYPE
TOKEN NAME

Resource type is the resource library being processed when the error occurred. It can be:

CODED FONT RESOURCE
CODE PAGE RESOURCE
COLOR MANAGEMENT RESOURCE
DATA OBJECT FONT RESOURCE.
file name
FONT CHARACTER SET RESOURCE
FORM DEFINITION RESOURCE
member name
OBJECT CONTAINER/OCA RESOURCE
OVERLAY RESOURCE
PAGE DEFINITION RESOURCE
PAGE SEGMENT/OCA RESOURCE
SECURITY DEFINITIONS RESOURCE
NOT VALID

Library type is the type of resource library that is being processed when the error occurred. It can be:

concatenation number
ddname
dsname
FONT
FONTPATH
FORMDEF
INLINE CMR
INLINE DATA OBJECT FONT
INLINE FONT
INLINE FORMDEF
INLINE OBJECT CONTAINER
INLINE OVERLAY
INLINE PAGEDEF
INLINE SEGMENT/OCA
OBJECT CONTAINER/OCA
OBJECT CONTAINER PATH
OVERLAY
PAGEDEF
SECURITY DEFINITIONS

SECURITY FONT
SECURITY OVERLAY
SECURITY SEGMENT/OCA
SEGMENT/OCA
SYSTEM LIBRARY
USERLIB
USERPATH
| ***NOT VALID***

| ***NOT AVAILABLE*** means that one of these is not available to this function: the ddname, the dsname, the member name, the definition type, the resource type, the library resource type, or the token name. ***ddname for a USERLIB*** is a system-generated name that consists of the characters 'SYS' followed by five digits.

System action: For the system action taken, see the other messages associated with this error.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS551I **THE RESOURCE EXIT REQUESTED THE SELECTIVE DELETION OF {PAGE SEGMENT | OVERLAY}. SELECTIVE DELETION OF THIS RESOURCE TYPE IS NOT SUPPORTED BY THE ATTACHED PRINTER.**

Explanation: The resource exit requested a selective deletion for a printer that does not support selective deletion of this resource type.

System action: All resources of this type are deleted from the printer.

User response: No response is necessary.

System programmer response: Modify the exit code so that selective deletion of resources is not requested for a printer that does not support selective deletion of this resource type.

Operator Response: Contact your system programmer.

Problem determination: None.

APS553I **A RASTER OVERLAY (***raster overlay***) WAS SPECIFIED BUT NO ACCUMULATOR FEATURE EXISTS. THE OVERLAY WAS PROCESSED AS A CODED OVERLAY.**

Explanation: The error occurred because a request was made to load an overlay as a raster overlay. The 3800 printer has no accumulator feature to load the raster overlay.

System action: The overlay is processed and loaded into the printer not as a raster overlay but as a coded overlay. Printed output should be acceptable.

User response: If a raster overlay is desired for this data set, ensure that the data set is routed to an output class for a printer with the accumulator feature. If the data set was being processed in direct-printing mode, ensure that the allocated printer has the accumulator feature.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS554I **A RASTER OVERLAY** *raster overlay* **WAS SPECIFIED WHEN ONE ALREADY HAS BEEN LOADED. THE OVERLAY WAS PROCESSED AS A CODED OVERLAY.**

Explanation: This error occurred because a request was made to load an overlay as a raster overlay. A raster overlay already occupies the accumulator.

System action: The overlay is processed and loaded into the printer not as a raster overlay but as coded overlay. Printed output should be acceptable.

User response: Ensure that multiple raster overlays are not required by the same data set. If the data set is spooled, ensure that the data set and the PSF startup procedure do not conflict in their raster-overlay requirements.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS555I **THE RESOURCE EXIT REQUESTED A RELOADING OF {PAGE SEGMENT/OCA OBJECT | OVERLAY}** *member name***. RELOADING OF THIS RESOURCE TYPE IS NOT SUPPORTED BY THE ATTACHED PRINTER.**

Explanation: The resource exit requested a reloading of a resource. The selective-deletion required operation

for this resource type is not supported by the attached printer.

System action: The resource was not reloaded. Processing of the data set continues with the original copy of the resource.

User response: No response is necessary.

System programmer response: Modify the exit code so that selective deletion of resources is not requested for a printer that does not support selective deletion of this resource type.

Operator Response: Contact your system programmer.

Problem determination: None.

APS556I **THE REQUESTED CHARACTER ROTATION FOR {CODED FONT | CP/FN PAIR}** *member name* **IS NOT SUPPORTED BY THE PRINTER.**

Explanation: The font and its character rotation were specified in the Map Coded Font (MCF) structured field. The printer does not support the requested character rotation for resident fonts or resident symbol sets. If the CHARS or UCSJCL keywords were used in specifying the font being used, PSF constructed the MCF structured field.

System action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream containing the resource. PSF issues other messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. For information on supported character rotations for resident fonts or resident symbol sets, refer to the publications for your printer. For more information about the MCF structured field, refer to *Mixed Object Document Content Architecture Reference*.

If you used a program to create the structured fields for the print data set or the resource, verify that a supported character rotation was specified for the resident font or resident symbol set. For information on supported character rotations for resident fonts or resident symbol sets, refer to the publications for your printer. If the specified character rotation is supported by the printer, contact your system programmer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. If an IBM licensed program was used to create the structured fields for the print data set with

the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 19.

APS557I **REGION WAS TOO SMALL FOR PROCESSING {CODED FONT | FONT CHARACTER SET | CODE PAGE | PAGE SEGMENT | OVERLAY | FORMDEF | PAGEDEF | OBJECT CONTAINER } (***member name***).**

Explanation: The GETMAIN macro attempted to obtain space for the resources identified in this message, but was unsuccessful because of a lack of storage.

System action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or the containing resource. PSF issues other messages identifying the processing environment in which the error occurred.

User response: Determine whether any of the resources specified could be deleted from the input data stream. If no resources can be deleted, contact your system programmer.

System programmer response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17.

APS560I **A DOUBLE-BYTE FONT WAS SPECIFIED FOR A PRINTER THAT DOES NOT SUPPORT DOUBLE-BYTE FONTS.**

Explanation: A request to use a double-byte font was made to a printer that does not support double-byte fonts.

System action: PSF cannot print the current page.

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PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or containing resource. PSF issues other messages identifying the processing environment in which the error occurred.

User response: If double-byte fonts are required, resubmit the print request to a printer that supports double-byte fonts. If double-byte fonts are not required, remove the reference to them from the print data set, resource, or JCL CHARS parameter, and resubmit the print request to the original printer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS561I REGION WAS TOO SMALL FOR PROCESSING {FORMDEF | PAGEDEF | CODED FONT | PAGE SEGMENT/OCA OBJECT | OVERLAY | OBJECT CONTAINER } (*member name***).**

Explanation: The GETMAIN macro attempted to obtain space for the resource identified in this message, but was unsuccessful because of a lack of storage.

System action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or the containing resource. PSF issues other messages identifying the processing environment in which the error occurred.

User response: Determine whether any of the resources specified could be deleted from the input data stream. If no resources can be deleted, contact your system programmer.

System programmer response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17.

APS562I CODED FONT MEMBER NAME *member name* SPECIFIED IN AN MCF STRUCTURED FIELD COULD NOT BE MAPPED TO CODE PAGE AND FONT CHARACTER SET MEMBER NAMES.

Explanation: Coded Font member names specified in a Map Coded Font (MCF) format 2 structured field contain an eight-byte Global Resource ID (GRID) that PSF maps to code page and font character set member names. The GRID specified in the message text was not mapped correctly to a code page, to a font character set, or to both of those objects. The MCF structured field is contained in a MO:DCA document, an overlay, or a page definition.

System action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or containing resource. PSF issues other messages identifying the processing environment in which the error was found.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 19.

APS563I **{CODED FONT | CP/FN PAIR | PAGE SEGMENT/OCA OBJECT | OVERLAY | PAGEDEF | FORMDEF | OBJECT CONTAINER}** *member name* **WAS REPLACED BY {CODED FONT | CP/FN PAIR | PAGE SEGMENT/OCA OBJECT | OVERLAY | PAGEDEF | FORMDEF | OBJECT CONTAINER}** *member name (optional text).*

Explanation: The resource exit requested substitution of a CODED FONT (a code page/character set pair, abbreviated CP/FN PAIR), a PAGE SEGMENT/OCA OBJECT, an OVERLAY, a PAGEDEF, a FORMDEF, or an OBJECT CONTAINER. The member name of the resource originally specified, and the member name of the resource to be substituted, are provided. Optional message text might also be provided.

System action: PSF replaces the substitution resource for all references of the resource requested by the user.

User response: If the printed output is not acceptable, contact your system programmer.

System programmer response: You might use the *optional text* field of the message to provide further explanation for the user as to why this resource was replaced. For more information on how to provide optional message text, refer to *PSF for z/OS: Customization.*

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 8, 19.

APS564I **{CODE PAGE | FONT CHARACTER SET}** *member name* **SPECIFIED IN A CFI OR AN MCF STRUCTURED FIELD IS NOT MAPPED TO A RESIDENT SYMBOL SET IN THE PSF RESIDENT FONT TABLE (APSRFTBL).**

Explanation: PSF could not find the code page or font character set member name in the PSF Resident Font Table (APSRFTBL). The code page and font character set were specified in a Coded Font Index (CFI) or a Map Coded Font (MCF) structured field. The CFI structured field is in a coded font. The MCF structured field might be in the MO:DCA data set, an overlay, or a page definition.

System action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or the containing resource. PSF issues other messages identifying the processing environment in which the error occurred.

User response: Verify that the font character set name and the code page name are specified correctly. If the names contain an error, correct the error and resubmit the print request. If the names are correct, contact your system programmer.

System programmer response: Verify that the combination of requested font character set and code page member names is a valid symbol set that is resident in the printer. Refer to your printer publications and to *PSF for z/OS: Customization.* If the symbol set is valid, add the missing code page or font character set entry to the APSRFTBL. For information on how to modify APSRFTBL, refer to *PSF for z/OS: Customization.*

Operator Response: No response is necessary.

Problem determination: Items 2, 17, 27.

APS565I **AN ATTEMPT WAS MADE TO ACTIVATE A PRINTER RESIDENT FONT USING GLOBAL RESOURCE ID** *grid.* **THE ATTEMPT WAS NOT SUCCESSFUL.**

Explanation: The Global Resource Identifier (GRID) is used to identify a printer-resident font. The GRID is composed of four 2-byte numeric identifiers:

| • Graphic Character Set Global Identifier (GCSGID)
| • Code Page Global Identifier (CPGID)
| • Font Global Identifier (FGID)
| • Font Width (FW)

PSF attempts to activate a printer-resident font through the GRID because:

- The font character set and code page names could not be mapped from the GRID by use of either the system mapping tables or the APSRNTGM or APSRGTNM user-modifiable tables.

The GRID provided in the message text did not identify a printer-resident font; therefore it could not be activated.

System action: If the error occurs during initialization, PSF ends. PSF issues other messages identifying the processing environment in which the error was found. Additional System Action messages are also issued.

If the error occurs during processing, refer to the System Action messages to determine if PSF stops processing the page (MSGAPS100I) or stops printing the data set (MSGAPS101I).

User response: If you wanted to use a printer-resident font, ensure that the GRID identified in the message is specified correctly. See the documentation for your printer. If the GRID contains an error, correct the error and resubmit the print request.

If you wanted to use a code page and font character set

pair from the library, ensure that the APSRNTGM and APSRGTNM tables correctly map the GRID to a pair of code page and font character set names that exist in the system font library. If the tables do not correctly map the GRID to existing library members, follow the procedures to modify the tables and relink them with PSF, and resubmit the print request.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 8, 17, 19.

APS566I   AN ATTEMPT WAS MADE TO ACTIVATE A CODED FONT *member name* **USING FONT CHARACTER SET** *member name*, **CODE PAGE** *member name*, **VERTICAL FONT SIZE** *size*, **HORIZONTAL FONT SIZE** *size*, **AND HORIZONTAL SCALE FACTOR** *scale factor*. **THE ATTEMPT WAS NOT SUCCESSFUL.**

Explanation: PSF was attempting to activate a coded font but was not successful. To activate the coded font, the code page and the font character set should have already been loaded in the printer or activated. The message contains the member names of the coded font, the code page, and the character set that were involved in this error. Also included in the message are the vertical and horizontal font sizes and the horizontal scale factor.

Some possible causes of this error are:
* A coded font with the same HAID was already active. This would be a PSF logic error.
* The printer found something wrong with the values specified in the Active Resource command. This would be a PSF logic error.
* The font character set or the code page was not activated or loaded in the printer before the coded font was activated. This would be a PSF logic error.
* The character set and the code page are not compatible. A user can create a coded font resource that specifies a font character set and a code page that cannot be used together.

System action: PSF was unable to activate all the resources in the printer that were required for printing this page. As a result, PSF does not print the page containing the error.

PSF issues a message identifying the page containing the resource that had the error. PSF issues other messages identifying the processing environment in which the error was found.

User response: Ensure that the code page and the font character set for the coded font that contains the error are compatible. For information about how to select compatible code pages and font character sets, refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* . If the code page and the font character set are compatible, this might be a PSF logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer that this error occurred.

Problem determination: Items 2, 8, 17, 19.

APS568I   A BEGIN STRUCTURED FIELD FOR {CODE PAGE | PAGE SEGMENT | FONT CHARACTER SET | UNKNOWN | OVERLAY } (*member name***) WAS NOT MARKED BY THE APSRMARK UTILITY OR WAS MARKED INCORRECTLY FOR USE WITH REMOTE PRINT MANAGER OR DISTRIBUTED PRINT FUNCTION. LINE UTILIZATION MAY BE EXCESSIVE.**

Explanation: This failure is caused by an unsuccessful attempt to interrogate the Begin structured field for the identified resource. The Begin structured field either contains an error or is not marked by the APSRMARK utility for use with the Distributed Print Function (DPF) of InfoPrint Manager for Windows.

System action: Because PSF is unable to obtain information to determine the presence of this resource in the printer, processing is performed as if the resource in question were a private resource. The resource is sent to the printer rather than any remote resource that might be equivalent. PSF continues processing data, and the printed output is acceptable; however, printer performance is degraded.

PSF issues a message identifying the position of the structured field in the input data stream or in the containing resource. PSF issues other messages identifying the processing environment in which the error was found.

User response: If you wanted DPF to process the

resource, contact your system programmer. If you did not want DPF to process the resource, no response is necessary.

System programmer response: If DPF was supposed to process the resource, ensure that the resource was marked by the APSRMARK utility. If it was, the error might be a PSF logic error. If DPF was not to process the resource, no response is necessary. For information about how to mark a resource by use of APSRMARK, refer to *PSF for z/OS: Customization*.

Operator Response: Inform your system programmer that this error occurred. For information about how to use APSRMARK to mark a resource, refer to *PSF for z/OS: Customization*.

Problem determination: Items 2, 17, 19.

APS569I   **AN ATTEMPT WAS MADE TO PRINT WITH DOUBLE BYTE FONT CHARACTER SET EXTENSION** *childfont*, **BUT THE ASSOCIATED PRINTER RESIDENT FONT COULD NOT BE ACTIVATED.**

Explanation: The double-byte font that you selected has some characters defined in the double-byte character extension in the message as childfont . These are intended to be additions to a printer-resident double-byte font. However, the printer does not have the required double-byte font as a resident font. Therefore, PSF cannot activate (build) the combined font.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

User response: If the double-byte font is required, resubmit the print request to a printer that has the required resident double-byte font. If the double-byte font is not required, remove the reference to it from the print data set, resource, or JCL CHARS parameter, and resubmit the print request to the original printer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS570I   **A BLDL FAILURE OCCURRED DURING RESOURCE MANAGER INITIALIZATION, BLDL RETURN CODE** *return code*, **BLDL REASON CODE** *reason code*.

Explanation: While PSF was locating the APSRNTGM and APSRGTNM tables, the BLDL macro failed.

System action: Processing continues without the APSRNTGM and APSRGTNM tables.

User response: Inform your system programmer that this error occurred.

System programmer response: Evaluate the BLDL macro return and reason codes to determine the cause of this failure. For more information, refer to *z/OS DFSMS Macro Instructions for Data Sets*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS571I   **CODE PAGE** *member name* **AND FONT CHARACTER SET** *member name* **ARE ASSOCIATED WITH THE REPORTED FONT ERROR.**

Explanation: The code page and font character set identified in the message text were used to activate the font that caused the reported error. These resources might have been used to activate a printer-resident font, in which case the printer-resident font might contain the error.

System action: See the accompanying messages for the system action that was taken.

User response: If the accompanying messages are not sufficient to identify the problem, contact your system programmer.

System programmer response: If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Operator Response: No response is necessary.

Problem determination: None

APS573I   **OVERLAY** *member name* **CONTAINS AN ERROR THAT MAY PREVENT THE PRINTER FROM PRINTING THE PAGE. IF THE PAGE IS PRINTED THE RESULTING OUTPUT MAY BE UNACCEPTABLE.**

Explanation: The specified resource contains a data-stream exception (such as a position error). For details on the type of data-stream exception, look at the

environmental messages issued with the first APS573I message. One of the environmental messages states the page number on which the error was first detected. Scan past all other APS573I messages in the message data set, and search for the next message group containing the same page number; it contains the message for the error in the resource.

System action: The printer you were using might attempt to print the page containing the error or might print only part of the page. If the page that contains the error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page that contains the error, unless the printer reported another error that required a more severe PSF recovery action.

User response: Find the detailed error message for the resource by following the directions given in the Explanation. Correct the problem by following the User Response for that message.

System programmer response: No response is necessary. No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS574I   REGION WAS TOO SMALL FOR PROCESSING {CP/FN PAIR | CODED FONT | PAGE SEGMENT} *member name***.**

Explanation: The GETMAIN macro attempted to obtain space for the resource identified in this message but was unsuccessful due to a lack of storage.

System action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or containing resource. PSF issues other messages identifying the processing environment in which the error was found.

User response: Determine whether any of the resources specified could be deleted from the input data stream. If no resources can be deleted, contact your system programmer.

System programmer response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17.

APS575I   REGION WAS TOO SMALL FOR PROCESSING OVERLAY *member name***.**

Explanation: The GETMAIN macro attempted to obtain space for the resource identified in this message, but was unsuccessful because of a lack of storage.

System action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or the containing resource. PSF issues other messages identifying the processing environment in which the error was found.

User response: Determine whether any of the resources specified could be deleted from the input data stream. If no resources can be deleted, contact your system programmer.

System programmer response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17.

APS576I   REGION WAS TOO SMALL FOR PROCESSING APSRMARK DATA IN THE BEGIN STRUCTURED FIELD OF {FONT CHARACTER SET | CODE PAGE | PAGE SEGMENT | OVERLAY} *member name***.**

Explanation: PSF attempted to obtain storage for a work area necessary to process APSRMARK data that was in the specified resource, but PSF was unsuccessful because of a lack of storage. The resource can be a code page, a font character set, a page segment, or an overlay. PSF needs this space to determine the presence of remote or resident resources.

System action: Because PSF has insufficient storage to determine the presence of these resources (resident either in the printer or in the Distributed Print Function resource library), processing is performed as if these resources did not exist as remote or resident resources. Resources are sent to the printer instead of using any remote or resident resources that might be equivalent. PSF continues processing data, and the printed output

should be acceptable; however, performance of the printer is degraded.

PSF issues a message identifying the position of the structured field in the input data stream or containing resource. PSF issues other messages identifying the processing environment in which the error was found.

User response: Determine whether any of the resources specified could be deleted from the input data stream. If no resources can be deleted, contact your system programmer.

System programmer response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17.

APS577I **REGION WAS TOO SMALL FOR PROCESSING {PAGEDEF | FORMDEF | CODED FONT | CODE PAGE | FONT CHARACTER SET | PAGE SEGMENT | OVERLAY | OBJECT CONTAINER}** *member name***.**

Explanation: The GETMAIN macro attempted to obtain space for the resource identified in this message, but was unsuccessful because of a lack of storage.

System action: PSF stops processing the current page, and prints any accumulated data for the current page. PSF attempts to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or the containing resource. PSF issues other messages identifying the processing environment in which the error was found.

System programmer response: The size of the REGION parameter for the print request should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17.

APS579I **WHILE PROCESSING A CODED FONT** *member name* **USING FONT CHARACTER SET** *member name* **AND CODE PAGE** *member name***, CONFLICTING FONT TECHNOLOGIES WERE DISCOVERED IN THESE OBJECTS. PROCESSING FOR THIS FONT WAS NOT SUCCESSFUL.**

Explanation: PSF was attempting to lead or activate a font when it discovered that the font technology (either raster or outline) of the font character set and the font technology of the code page were different. The font technology of the font character set and code page must be identical.

Some possible causes of this error could be:

- The coded font object specifies the name of a font character set with raster font technology and a code page with outline font technology.
- After mapping font names, the new font character set name and code page name specified font parts of different font technologies.

System action: PSF was unable to activate all the resources in the printer that were required for printing this page. As a result, PSF does not print the page containing the error.

User response: Ensure that the code page and the font character set for the coded font are compatible. The coded font members must both be the same technology. For more information about how to select compatible code pages and font character sets, refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference*. If you think the code page and font character set are of the same font technology, PSF could have a logic error that caused the problem.

System programmer response: If an IBM licensed program was used to create the data stream structured fields for the resource with the error, verify that the input to the program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section of this message to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is specified for use with a separator page or message data set in the PSF startup procedure. Inform your system programmer that this error occurred.

Problem determination: Items 2, 8, 17, 19.

APS580I *APSRMARK control statement*

Explanation: This message echoes each APSRMARK control statement after it is processed.

System action: This message is only for information.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS581I **UNABLE TO OPEN INPUT RESOURCE DATA SET. CHECK INDD FOR ERRORS.**

Explanation: The data set defined by the JCL statement referred to by the INDD control parameter (as shown in the listing) could not be opened for input. The reason is probably that a JCL statement is not valid or is missing.

System action: PSF stops processing this control statement.

User response: Correct the JCL and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS582I **INPUT RECFM IS INCORRECT FOR RESOURCE DATA. CHECK INDD FOR ERRORS.**

Explanation: The data set defined by the JCL statement referred to by the INDD control parameter (as shown in the listing) has a fixed-record format. The resource data is expected to be in variable-record format. The reason for the failure is probably that a data set is defined incorrectly in the JCL statement referred to by the INDD control parameter.

System action: PSF stops processing this control statement.

User response: Change the JCL to refer to a valid resource data set, and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS583I **INPUT LRECL IS INCORRECT FOR RESOURCE DATA. CHECK INDD FOR ERRORS.**

Explanation: The data set defined by the JCL statement referred to by the INDD control parameter (as shown in the listing) has a logical record length greater than 32,767. The resource data is expected to have a logical record length less than 32,768. The reason for the failure is probably that a data set is defined incorrectly in the JCL statement referred to by the INDD control parameter.

System action: PSF stops processing this control statement.

User response: Change the JCL to refer to a valid resource data set, and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS584I **UNABLE TO OPEN OUTPUT DATA SET. CHECK OUTDD FOR ERRORS.**

Explanation: The data set defined by the JCL statement referred to by the OUTDD control parameter (as shown in the listing) could not be opened for output, probably because a JCL statement is not valid or is missing.

System action: PSF stops processing this control statement.

User response: Correct the JCL and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS585I **RESOURCE DATA COPIED TO OUTPUT BUT WAS UNMARKED.**

Explanation: Coded fonts, form definitions, page definitions, object containers, and unrecognized resources are not marked by the APSRMARK utility. They are copied to the output without modification. Only code pages, font character sets, overlays, and page segments can be marked by the APSRMARK utility.

System action: The processing of this control statement continues.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS586I   **PREMATURE END-OF-FILE DETECTED ON INPUT. INPUT MAY NOT BE VALID DATA FORMAT.**

Explanation: The input data set is scanned for a valid Begin structured field and its corresponding End structured field. One or the other of these structured fields could not be found in the input data set. Either the resource was missing a Begin or End structured field, or nonresource data was input to the APSRMARK utility. Only page segments, overlays, code pages, and font character sets are valid input.

System action: PSF stops processing this control statement.

User response: If you created the structured fields for the resource and you did not intend to have the resource marked, correct your JCL and APSRMARK control statements and resubmit the APSRMARK job. If the resource's structured fields are correct, and you intended to mark the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS587I   **UNABLE TO OPEN CONTROL STATEMENT DATA SET. CHECK SYSIN FOR ERRORS.**

Explanation: The data set defined by the SYSINDD statement could not be opened for input, probably because a JCL statement is not valid or is missing.

System action: All processing is ended.

User response: Correct the JCL and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS588I   **INPUT RECFM IS INCORRECT FOR CONTROL STATEMENT DATA SET. CHECK SYSIN FOR ERRORS.**

Explanation: The data set defined by the SYSINDD statement has an incorrect record format. The control statement data set must have a fixed record format. The reason for this failure is probably that a data set was defined incorrectly in the SYSINDD statement.

System action: All processing is ended.

User response: Correct the SYSINDD statement, and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS589I   **INPUT LRECL IS INCORRECT FOR CONTROL STATEMENT DATA SET. CHECK SYSIN FOR ERRORS.**

Explanation: The data set defined by the SYSINDD statement has an incorrect logical record length. The control statement data set must have a logical record length of 80. The reason for this failure is probably that a data set was defined incorrectly in the SYSINDD statement.

System action: All processing is ended.

User response: Correct the SYSINDD statement, and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS590I   **INCORRECT CONTROL STATEMENT SYNTAX. STATEMENT IGNORED.**

Explanation: The syntax of a control statement is not valid. This failure is probably caused by typing errors.

System action: PSF stops processing this control statement.

User response: Correct the control statement syntax, and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS591I   **MPS STRUCTURED FIELD ADDED TO OVERLAY.**

Explanation: In an overlay, a soft page segment, identified with an Include Page Segment (IPS) structured field, was converted to a hard page segment by adding a Map Page Segment (MPS) structured field to the Active Environment Group of the overlay. This change was made during APSRMARK processing, so that any updates to the page segment referenced in the overlay would be detected by the Distributed Print Function (DPF) of Print Services Facility/2.

System action: PSF processing continues.

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User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS592I   **PROCESSING ABORTED FOR MEMBER** *member name*.

Explanation: The input resource data could not be processed successfully. Previous error messages describe the precise error condition.

System action: PSF stopped processing for this member.

User response: To determine an appropriate response, see the specific error condition described in the accompanying messages.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS593I   **BEGIN RECORD TRUNCATED BECAUSE OF UNRECOGNIZED EXTENSION.**

Explanation: The input resource data does not conform to the format expected for a valid Begin structured field. This message warns that the Begin structured field has been changed to conform to the expected architecture and that information has been dropped from the Begin structured field.

System action: The Begin structured field is changed, and processing continues.

User response: Inform your system programmer that this error occurred.

System programmer response: Ensure that no applications are affected by the changes to the Begin structured field.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS594I   **PROCESSING COMPLETED.**

Explanation: The input resource data has been processed successfully.

System action: This message is only for information.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Item 3.

APS595I   **PROCESSING COMPLETED FOR MEMBER** *member name*.

Explanation: The input resource data for the specified member has been processed successfully.

System action: This message is only for information.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS596I   **OUTPUT RECFM IS INCORRECT FOR RESOURCE DATA. CHECK OUTDD FOR ERRORS.**

Explanation: The data set defined by the JCL statement referred to by the OUTDD control parameter (as shown in the listing) has a fixed-record format. The resource data is expected to be in variable-record format. The reason for this failure is probably that a data set is defined incorrectly in the JCL statement referred to by the OUTDD control parameter.

System action: PSF stops processing this control statement.

User response: Change the JCL to reference a valid resource data set, and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS597I   **OUTPUT LRECL IS INCORRECT FOR RESOURCE DATA. CHECK OUTDD FOR ERRORS.**

Explanation: The data set defined by the JCL statement referred to by the OUTDD control parameter (as shown in the listing) has a logical record length greater than 32,767. The resource data is expected to have a logical record length less than 32,768. The reason for this failure is probably that a data set was defined incorrectly in the JCL statement referred to by the OUTDD control parameter.

System action: PSF stops processing this control statement.

User response: Change the JCL to refer to a valid resource data set, and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

**APS598I   INPUT DATA SET SPECIFIED BY INDD
              DOES NOT CONTAIN MEMBER** *member
              name*.

Explanation: The data set defined by the JCL
statement referred to by the INDD control parameter (as
shown in the listing) does not contain the referenced
member name. This failure is probably caused by a
typing error on the control statement.

System action: PSF stops processing this *member
name*.

User response: Correct the control statement to refer
to a valid member name, and resubmit the print request.

System programmer response: No response is
necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

**APS599I   MEMBER ALREADY EXISTS IN DATA
              SET SPECIFIED BY OUTDD. USE
              REPLACE TO UPDATE MEMBER**
              member name.

Explanation: The data set defined by the JCL
statement referred to by the OUTDD control parameter
(as shown in the listing) already contains the referenced
member name. To overwrite an existing member, the
REPLACE parameter must be specified on the control
statement.

System action: PSF stops processing this *member
name*.

User response: Correct the control statement to
specify REPLACE, and resubmit the print request.

System programmer response: No response is
necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

**APS600I   USER IS NOT AUTHORIZED TO
              OVERRIDE DEFAULT VALUE.**

Explanation: This message is issued when
DPAGELBL or SYSAREA parameter is equal to YES on
the PRINTDEV statement, and the user specifies NO
without correct Resource Access Control Facility
(RACF) authorization.

System action: PSF releases the current data set
back to JES and requests that it be held by the system.

User response: Ask the system security administrator
for permission to override the default values, or change
the output so that it does not override the default.

System programmer response: Determine whether

the user should be authorized to override SYSAREA or
DPAGELBL. If the user should be authorized, use
RACF to give the user the appropriate authorization. For
information on how to do this, see the RACF
publications for your operating system.

Operator Response: Notify the security administrator
of this error. For a command to release the data set for
printing after the problem has been corrected, refer to
the publication containing JES operator commands for
your operating system.

Problem determination: Items 2, 9, 11.

APS601I   USERLIB SPECIFICATION IS IGNORED.

Explanation: JES did not provide PSF the UTOKEN
parameter required in order to perform a RACF
authorization check for a user library (USERLIB). This
condition can arise if the correct prerequisite level of
z/OS, RACF, or JES is not installed, or if any of those
programs contains a logic error.

System action: Processing of the data set continues,
using system libraries only.

User response: Inform your system programmer that
this error occurred.

System programmer response: Ensure that the
correct levels of z/OS, RACF, and JES for this version
of PSF are installed. If the correct levels are installed,
follow the procedures described in *PSF for z/OS:
Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer
that this error occurred.

Problem determination: Items 1, 17, 27.

**APS602I   PSF FAILED TO FIND CNTL
              STATEMENT** *control statement* **IN
              CURRENT STEP, REASON CODE =**
              reason code.

Explanation: PSF invoked the Scheduler JCL Facility
(SJF) to find the scheduler work block for the control
statement in the current step specified by the CNTL
keyword on the DD statement. The SJF FIND macro
failed and returned the reason code identified in this
message. The values of the reason codes and their
meanings are:

- X'1': The FIND macro was successful.
- X'190': The specified SWB chain was not found.
- X'191': The STEP or PROC name was not found.
- X'192': The specified DD label was not found.
- X'193': No search bits were specified in the
  parameter list.
- X'194': Undefined bits were specified in the
  parameter list.
- X'195': The control group was not found.

- X'196': A step name was not specified in the parameter list.
- X'197': An incorrect starting address was specified in the parameter list.

System action: PSF fails to initialize.

User response: No response is necessary.

System programmer response: This error was probably caused by an error in specifying the JCL statements for the writer procedure. For information about specifying JCL statements, refer to *PSF for z/OS: Customization*. Correct the error and restart the procedure. If you have made any changes to the startup procedure, be sure to CANCEL the STARTED TASK before trying again.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS603I   **PRINTDEV VERB NOT FOUND WITHIN CNTL GROUP** *control group***.**

Explanation: PSF invoked the Scheduler JCL Facility (SJF) to find the scheduler work block chain for a PRINTDEV verb in the control group identified in this message. The PRINTDEV verb was not found.

System action: PSF fails to initialize.

User response: No response is necessary.

System programmer response: Omission of the PRINTDEV JCL statements in the PSF startup procedure probably caused this error. For information about specifying JCL statements for the PSF startup procedure, refer to *PSF for z/OS: Customization*. Correct the error and restart the procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 2, 17, 27.

APS604I   **ONE OR MORE KEYWORDS REQUIRED TO INITIALIZE AN SNA DEVICE WAS NOT SPECIFIED ON THE PRINTDEV STATEMENT. ALL REQUIRED KEYWORDS MUST BE SPECIFIED BEFORE THE PROCEDURE CAN BE STARTED.**

Explanation: To start an SNA-attached printer, all required keywords must be specified.

System action: PSF fails to initialize.

User response: No response is necessary.

System programmer response: Ensure that all required keywords for the SNA-attached printer are specified in the PRINTDEV JCL statement in the PSF startup procedure. For more information, refer to *PSF*

for z/OS: Customization. The required SNA-attached keywords are:

- LUNAME— VTAM node name for the printer
- APPLID— VTAM node name for the FSA

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 24, 26.

APS605I   **VIRTUAL STORAGE COULD NOT BE ACQUIRED FOR TRACING. {ALL | EXTERNAL} TRACING FOR {prtname | fssname} HAS BEEN CANCELED.**

Explanation: Virtual storage could not be acquired for all the required trace control blocks. The indicated trace types have been canceled.

System action: The indicated types of tracing were canceled.

User response: No response is necessary.

System programmer response: Increase the REGION size specified in the PSF startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 8, 17.

APS606I   **PERMANENT I/O ERROR OCCURRED ON TRACE DATA SET,** *unit name***,** *ddname***,** *device type***,** *command***,** *error***.**

Explanation: The PSF SYNAD routine encountered a permanent I/O error on the trace data set.

System action: Tracing stops.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the error on the basis of the information provided by the message.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1, 2, 8, 17, 18, 19.

APS608I   **PSF GTF TRACING HAS BEEN {ACTIVATED | DEACTIVATED}.**

Explanation: PSF has activated or deactivated tracing to Generalized Trace Facility (GTF). When activated, PSF Generalized Trace Facility issues the GTRACE macro request to have trace data written to the GTF data set. When deactivated, PSF stops writing trace data to GTF.

System action: PSF continues processing the data.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 17, 27.

APS609I **MUTUALLY EXCLUSIVE KEYWORDS WERE SPECIFIED. SNA-REQUIRED KEYWORDS APPLID OR LUNAME WERE SPECIFIED WITH TCP/IP-REQUIRED KEYWORD IPADDR.**

Explanation: To start the printer, conflicting protocol keywords must be removed from the Printer Inventory or a PRINTDEV JCL statement in the PSF startup procedure.

System action: PSF fails to initialize.

User response: No response is necessary.

System programmer response: Remove the keywords from the Printer Inventory or the PRINTDEV JCL statement for the protocol not used to communicate with the device. For more information on how to specify Printer Inventory options or a PRINTDEV statement, refer to *PSF for z/OS: Customization*. The keywords required for an SNA-attached printer are:
- LUNAME— VTAM node name for the printer
- APPLID— VTAM node name for the FSA

The keyword required for a TCP/IP-attached printer is:
- IPADDR—Internet Protocol (IP) address for the printer

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 24, 16.

APS610I **GTF RETURN CODE = *rc: error text*.**

Explanation: Generalized Trace Facility (GTF) has returned a nonzero return code from the GTRACE request. The return code *rc* and the *error text* explain the error. The return codes and error text are:

```
04 inactive MVS GTF
08 incorrect length = xxxx
0C incorrect data address = xxxx
10 incorrect FID = xx
14 incorrect EID = xx
18 no GTF buffer space
1C incorrect parameter address = xxxx
20 data paged out
xx unknown GTF return code
```

PSF issues this message when attempting to start a PSF trace and direct its output to the GTF trace data set. If the message is received, GTF might not have been started with the correct USR event IDs. If you use the command

```
MODIFY FSSname, TRACEON, PRTxxx,FORMAT=GTF
```

to start PSF tracing, you must specify USR=(FD0,FD4). If you do not want both types of event, start GTF with the appropriate event ID. Then, if you want FD0, add EID=PSF to the MODIFY command; or, if you want only FD4 entries, add EID=FSI to the MODIFY command.

System action: The action depends on the return code; PSF might or might not continue tracing. For return codes 18 and 20, GTF tracing continues. For the other return codes listed, GTF tracing stops. For unknown return codes, GTF tracing stops.

User response: No response is necessary.

System programmer response: For more information on the return codes, refer to *z/OS MVS Diagnosis: Tools and Service Aids* or *z/OS MVS Diagnosis: Reference*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 27.

APS611I **COMMAND (TRACEOFF) NOT PROCESSED — TRACING IS NOT ACTIVE.**

Explanation: The TRACEOFF command was not processed, because tracing was not active.

System action: PSF continues processing.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 17, 27.

APS612I **COMMAND (*command*) NOT PROCESSED — NO TRACE DATA SET ALLOCATED FOR (*printer-name* I *notify task*).**

Explanation: A trace request was received for a printer or notify task, but no trace data set was allocated for that printer or notify task.

System action: The entire command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: If using the Printer Inventory, identify the trace data set using the FSA-trace-dsname parameter or the NST-trace-dsname parameter. Otherwise, identify the trace data set with a DD statement in the startup procedure.

Operator Response: Ask your system programmer to identify the required trace data set, or start tracing with the GTF format.

Problem determination: Items 1, 17, 27.

APS613I   COMMAND (*command***) NOT PROCESSED — PRINTER (***printer-name***) IS NOT ACTIVE.**

Explanation: The printer-name specified in a command was not active.

System action: PSF continues processing.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again after starting the named printer.

Problem determination: Items 1, 17, 27.

APS614I   THE VALUE SPECIFIED FOR THE ***keyword* KEYWORD ON THE OUTPUT STATEMENT IS NOT VALID.**

Explanation: The value given for the indicated keyword contained embedded blanks or too many decimal digits, or it specified an unrecognized unit.

System action: The data set is not printed.

User response: Correct the specification for the keyword and resubmit the job.

System programmer response: If the error is on an OUTPUT statement for a separator page or the message data set, correct the specification for the keyword in the PSF startup procedure and restart the FSA.

Operator Response: No response is necessary.

Problem determination: Items 2, 3.

APS615I   RESPTIME OR NORESP KEYWORD SPECIFIED WITHOUT THE OTHER ON THE ***prtnnnn* PRINTDEV STATEMENT.**

Explanation: The NORESP keyword defines the action to be taken when the time specified by the RESPTIME keyword expires. If one of these keywords is specified, both must be given. Only one of them was specified.

System action: FSA startup for PRINTER *prtnnnn* is aborted.

User response: No response is necessary.

System programmer response: Correct the PRINTDEV statement for *prtnnnn*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 24.

APS616I   THE NORESP KEYWORD ON THE ***prtnnnn* PRINTDEV STATEMENT CONTAINS AN INCORRECT ACTION PARAMETER.**

Explanation: The NORESP keyword was specified on the PRINTDEV statement for printer *prtnnnn* with an incorrect action type.

System action: FSA startup for printer *prtnnnn* is aborted.

User response: No response is necessary.

System programmer response: Correct the PRINTDEV statement for printer *prtnnnn*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 24.

APS617I   THE FORMAT OF THE NOTIFY OPTION OF THE NORESP KEYWORD IS NOT VALID ON THE ***prtnnnn* PRINTDEV STATEMENT.**

Explanation: NORESP=NOTIFY was specified on the PRINTDEV statement for printer *prtnnnn*, but the format of the NOTIFY option was incorrect.

System action: FSA startup for printer *prtnnnn* is aborted.

User response: No response is necessary.

System programmer response: Correct the PRINTDEV statement for *prtnnnn*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 24.

APS618I   RESPONSE TIMEOUT OR NO RESPONSE ACTION SPECIFIED WITHOUT THE OTHER IN THE PRINTER INVENTORY FOR ***fsa_name*.**

Explanation: The no response action parameter defines the action to be taken when the time specified by the response timeout parameter expires. If one of these parameters is specified, both must be given. Only one of them was specified.

System action: FSA startup for PRINTER *printer-lu* is aborted.

User response: No response is necessary.

System programmer response: Correct the printer definition in the Printer Inventory for *printer-lu*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 24.

APS619I   NOT ALL PARAMETERS REQUIRED TO INITIALIZE AN SNA DEVICE WERE SPECIFIED IN THE PRINTER INVENTORY FOR *fsaname***.**

Explanation: A parameter was specified which indicates that the printer is to be SNA-attached, but not all the parameters required for SNA attachment were given. To start an SNA-attached printer, all required parameters must be specified.

System action: PSF fails to initialize.

User response: No response is necessary.

System programmer response: Ensure that all required keywords for the SNA-attached printer are specified in the printer definition in the Printer Inventory. For more information, refer to *z/OS Infoprint Server Operation and Administration*. The required SNA-attached keywords are:

- luname— VTAM node name for the printer
- applid— VTAM node name for the FSA

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 24, 26.

APS620A   ENTER PSF COMMAND OR U – USING THE MVS MODIFY COMMAND.

Explanation: The PSF operator interface has not been initialized.

System action: PSF initialization continues.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: You can do one of these:

- Enter MODIFY commands for only the FSS (commands cannot be entered that specify the printer name); then initialize the PSF operator interface.
- Initialize the PSF operator interface.

To initialize the PSF operator interface, enter:

`{MODIFY|F}`
fssname
`,U`

where *fssname* is the name of the PSF FSS as provided in the message. Do not enter a printer name, or the command is rejected. After the PSF operator interface is initialized, you can enter any PSF operator commands.

Problem determination: Items 1, 17, 27.

APS621I   OPERATOR INTERFACE INITIALIZED FOR *product* **and** *version***.**

Explanation: The operator interface has been initialized successfully. All operator commands can now be entered for the PSF version or Download version specified in the message text.

System action: Initialization continues.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Operator commands can now be entered.

Problem determination: None.

APS622I   NOT ENOUGH STORAGE IS AVAILABLE TO INITIALIZE THE PSF OPERATOR INTERFACE — STORAGE REQUESTED = *size* **RETURN CODE =** *code***.**

Explanation: Not enough storage is available for control blocks or work areas. The message indicates the size of the storage being requested, and the return code is from the MVS GETMAIN macro.

System action: The PSF operator interface is not initialized. PSF initialization continues.

User response: No response is necessary.

System programmer response: Increase the REGION parameter on the procedure used to start PSF.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 27.

APS623I   THE PSF OPERATOR INTERFACE INITIALIZATION WAS UNSUCCESSFUL — MODULE (*module name***).**

Explanation: The PSF operator interface was not initialized successfully. A functional command initialization module returned a nonzero return code.

System action: The PSF operator interface is not initialized. PSF initialization continues.

User response: No response is necessary.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9.

APS624I THE PSF OPERATOR INTERFACE IS BEING TERMINATED — MODULE (*module name*) HAS TERMINATED.

Explanation: An abend has occurred in a module that has had a previous abend condition. Because the previous abend and this abend involve the same module, no recovery of the operator interface is attempted.

System action: The PSF operator interface is ended.

User response: No response is necessary.

System programmer response: If you suspect a PSF logic error, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 11.

APS625I THE PSF OPERATOR INTERFACE HAS BEEN TERMINATED.

Explanation: The PSF operator interface has had an unrecoverable error.

System action: The PSF operator interface is ended.

User response: No response is necessary.

System programmer response: If you suspect a PSF logic error, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: PSF must be purged and restarted to activate the operator interface.

Problem determination: Items 1, 9, 11.

APS626I PSF OPERATOR INTERFACE RECOVERY IS {IN PROGRESS | SUCCESSFUL | UNSUCCESSFUL} — FOR MODULE (*module name*).

Explanation: The PSF operator interface has had an error, and recovery is attempted. The error occurred in the named module.

System action: If recovery is successful, normal command processing is continued. If recovery is unsuccessful, the PSF operator interface is ended.

User response: No response is necessary.

System programmer response: To determine the appropriate action, see the problem-determination table.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 11.

APS627I PSF FSA *printer-name* HAS BEEN TERMINATED WITH THE FORCE COMMAND.

Explanation: The operator has issued an MVS MODIFY FORCE command for the specified *printer-name*.

System action: The Functional Subsystem Application (FSA) for the indicated *printer-name* has been stopped.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Item 1.

APS628I SYSTEM COMPLETION CODE *system completion code*, PSF ABEND REASON CODE *reason code*, HAS BEEN DETECTED BY *estae routine*.

Explanation: The PSF ESTAE routine detected a PSF abend condition.

System action: Depending on the error condition, PSF attempts either to recover or to end the operator interface. A subsequent PSF message notifies the operator which action was taken.

An ESTAE routine takes an SVC dump unless a dump was provided by an earlier routine.

User response: No response is necessary.

System programmer response: Examine the subsequent PSF messages to determine the appropriate response. To interpret the abend code, see Chapter 2, "System Completion Codes and PSF Abend Reason Codes," on page 451. For most abends, you must consult your IBM Support Center representative. For some abends, however, you can recover by increasing the REGION parameter on the startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 17, 19, 26.

APS629I PSF OPERATOR INTERFACE WAS TERMINATED ABNORMALLY.

Explanation: PSF detected an unrecoverable error while evaluating the abend condition. The ESTAE routine should have provided an SVC dump.

System action: Abend processing continues.

User response: No response is necessary.

System programmer response: The contents of the registers at the time of the abend are provided in the SVC dump and register 15 might contain a PSF abend

reason code. Save the dump for IBM Support Center use. To interpret the dump, refer to *PSF for z/OS: Diagnosis*. To interpret the system completion code, refer to the publication containing system messages for your operating system.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 17, 19, 26.

APS630I   **PSF ESTAE CANNOT EVALUATE SYSTEM COMPLETION CODE** *system completion code.* **ABNORMAL TERMINATION WILL CONTINUE.**

Explanation: The PSF ESTAE routine is unable to continue, because PSF did not issue the system completion code.

System action: Abend processing continues.

User response: No response is necessary.

System programmer response: To interpret the system completion code, refer to the MVS system codes publication for your operating system. To interpret the dump, refer to *PSF for z/OS: Diagnosis.* Save the dump for IBM Support Center use.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 17, 19, 26.

APS631I   **A STAPLE JAM HAS OCCURRED WHILE ACCUMULATING SHEETS FOR A FINISHING OPERATION. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.**

Explanation: The staple mechanism on a printer or post processor has jammed or has caused a physical-media jam. The printer detected and reported an asynchronous intervention-required error with an action code of X'0A' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF resends pages to the printer starting from the jam recovery page counter. Pages might be duplicated during recovery. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper

from the printer and post processor. PSF assumes that pages between the jam recovery page counter and the stacked page counter are not damaged and do not need to be reprinted. If any pages between these two printer counters do need to be reprinted, use the JES BACKSPACE command.

Problem determination: Items 1, 8, 18.

APS632I   **DATA IN A FORMDEF RESOURCE IS INCOMPATIBLE WITH THE PRINT REQUEST: THE OUTPUT CONTAINS TOO MANY SHEETS TO PERFORM THE FINISHING OPERATION SPECIFIED IN THE MEDIUM FINISHING CONTROL STRUCTURED FIELD.**

Explanation: A finishing operation was requested for a collection of sheets, but the number of sheets was too large for the operation.

Finishing Operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: PSF stops printing and processing the data set. The finishing operation is not applied or incompletely applied.

User response: If the output is not acceptable:

* Verify that you have requested the appropriate form definition for the finishing operation intended.
* Submit the print request to a printer that can perform the finishing operation.
* If errors caused message pages to be added to the output or pages to be skipped, fix those errors so that the correct number of pages is printed.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS633I **A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INCORRECT OR UNSUPPORTED FINISHING OPERATION TYPE FOR THE SELECTED MEDIA.**

Explanation: The operation type field (byte 2) in a Finishing Operation triplet (X'85') contains an incorrect or unsupported value for the selected media.

Finishing Operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and the data set is marked unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to

REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Verify that the selected media is the type intended for the finishing operation. If the wrong media was selected, either select a different input bin or have the correct media loaded in this input bin.

- Submit the print request to a printer than can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS634I **A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INCORRECT OR UNSUPPORTED FINISHING OPERATION REFERENCE CORNER AND EDGE FOR THE MEDIA BEING FINISHED.**

Explanation: The reference corner and edge field (byte 5) in a Finishing Operation triplet (X'85') contains an incorrect or unsupported value for the media being finished. This can be caused when a supported media

size has different supported reference corners and edges depending on which edge of the media is the leading edge.

Finishing Operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and the data set is marked unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Ensure that the media is oriented properly in the input bin for the requested finishing operation.

- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS635I   **THE COMMAND (*command*) IS NOT VALID FOR PSF.**

Explanation: An incorrect command was entered with the MODIFY command. The command is not supported.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter a valid command.

Problem determination: Item 1.

APS636I   **INCORRECT KEYWORD (*keyword*) SPECIFIED FOR COMMAND (*command*).**

Explanation: An incorrect keyword was entered with the MODIFY command. The keyword is not supported.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command with a valid keyword.

Problem determination: Item 1.

APS637I PROCESSING OF THE FORCE COMMAND FOR PSF FSA *printer name* **HAS BEEN TERMINATED. THE FSA HAS ALREADY BEGUN TERMINATING.**

Explanation: The operator has issued an MVS MODIFY FORCE for a PSF printer that is already in the process of stopping.

System action: The MODIFY FORCE command for the indicated printer name has been discarded by PSF. The stop processing already in progress is completed to attain the results desired by the discarded MODIFY FORCE command.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command with a valid keyword.

Problem determination: Item 1.

APS638I NO COMMAND SPECIFIED — *command-text***.**

Explanation: No command is associated with the data entered. *Command-text* is the data that was entered. The last character of *command-text* was the last position checked before PSF determined that no correct command was present.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter a valid PSF command.

Problem determination: Items 1, 9, 11.

APS639I COMMAND (*command***) {ACCEPTED | QUEUED}.**

Explanation: The PSF command has been accepted, or the command has been queued for later processing. When the command is accepted, the functional processor is called to process the command. When the command is queued, the command is placed on either an FSS-level queue or an FSA-level queue. All queued commands in which the printer-name is specified are queued on the FSA-level queue. Commands issued

without the printer-name are queued on the FSS-level queue.

System action: PSF continues processing the data.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Item 1.

APS640I PARAMETER *parameter* **in KEYWORD** *keyword* **REQUIRES A PRINTER NAME.**

Explanation: A printer name is expected, but no printer is specified.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, with a printer name.

Problem determination: Item 1.

APS641I A MECHANISM EXCEPTION OCCURRED THAT PREVENTS A FINISHING OPERATION FROM BEING APPLIED.

Explanation: The finishing mechanism on a printer or post processor has an intervention-required condition. The printer detected and reported an asynchronous intervention-required error with an action code of X'0A' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF resends pages to the printer starting from the jam recovery page counter. Pages might be duplicated during recovery. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper from the printer and post processor. PSF assumes that pages between the jam recovery page counter and the stacked page counter are not damaged and do not

need to be reprinted. If any pages between these two printer counters do need to be reprinted, use the JES BACKSPACE command.

Problem determination: Items 1, 8, 18.

APS642I   **THE MEDIUM FINISHING CONTROL (MFC) STRUCTURED FIELD IN THE DOCUMENT ENVIRONMENT GROUP SPECIFIES FINISHING OPERATION TRIPLETS THAT ARE INCOMPATIBLE WITH THE FINISHING OPERATION TRIPLETS SPECIFIED ON THE MFC STRUCTURED FIELD IN A MEDIUM MAP.**

Explanation: The Medium Finishing Control (MFC) structured field is specified in both the Document Environment Group and in the Medium Map and contain Finishing Operation triplets that are incompatible. Compatible combinations of finishing operations are specific to a particular presentation device.

The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and the data set is marked unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the MFC contains no triplets or no triplets that might be incompatible, the error might be a printer configuration problem or a printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS643I   **DATA IN A FORMDEF RESOURCE IS INCOMPATIBLE WITH THE PRINT REQUEST: THE OUTPUT CONTAINS TOO MANY SHEETS TO PERFORM THE FINISHING OPERATION SPECIFIED IN THE MEDIUM FINISHING CONTROL STRUCTURED FIELD.**

Explanation: A finishing operation was requested for a

collection of sheets, but the number of sheets was too large for the operation.

Finishing Operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer than can perform the finishing operation.
- If errors caused message pages to be added to the output, fix those errors so that the correct number of pages is printed.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS644I   **MIXED SIZES OF PHYSICAL MEDIA WERE SELECTED TO BE FINISHED BUT THE PRINTER DOES NOT SUPPORT FINISHING ON A GROUP OF SHEETS OF DIFFERENT SIZES.**

Explanation: A finishing operation was requested for a collection of sheets of mixed sizes, but the device requires all of the sheets in the collection to be the same size.

Finishing Operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: PSF stops printing and processing the data set. The finishing operation is not applied or is incompletely applied.

User response: If the output is not acceptable:

- If you have selected multiple input bins for a collection of sheets to be finished, make sure the media size in each is the same.
- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS645I   **PARAMETER** *parameter* **IS NOT SUPPORTED BY PSF.**

Explanation: A parameter is specified that PSF does not support.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, without the unsupported parameter.

Problem determination: Item 1.

APS646I   **THE KEYWORD (***keyword***) IS MUTUALLY EXCLUSIVE WITH ANOTHER KEYWORD SPECIFIED IN COMMAND (***command***).**

Explanation: Of the keywords specified in this command, two of them cannot both be specified in the same command.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, with

the correct keywords specified.

Problem determination: Item 1.

APS647I *keyword* **CANNOT BE SPECIFIED WITH** *keyword parameter — keyword* **IGNORED.**

Explanation: The command contains (a) a keyword and (b) a particular combination of keyword and parameter. This particular keyword cannot be used in the same command with this combination of keyword and parameter.

System action: The keyword is ignored and defaults are used.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: If different keywords are required, enter the command again. For more information about the keywords, refer to *PSF for z/OS: Diagnosis*.

Problem determination: Item 1.

APS648I **DUPLICATE KEYWORD (***keyword***) ENTERED FOR COMMAND (***command***).**

Explanation: A keyword was entered more than once for the same command.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command in the correct format.

Problem determination: Item 1.

APS649I **KEYWORD EXPECTED BUT NOT FOUND —** *command-text*.

Explanation: A keyword was expected on a command, but *command-text* was found instead. *Command-text* is the data that was entered. The last character of *command-text* was the last position checked before PSF determined that no correct keyword was present.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the correct format of the command.

Problem determination: Item 1.

APS650I **KEYWORDS ARE NOT ALLOWED WITH COMMAND (***command***).**

Explanation: A command was specified with keywords. This command does not allow keywords.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again without the keywords.

Problem determination: Item 1.

APS651I **KEYWORD REQUIRED FOR COMMAND (***command***).**

Explanation: A command was entered without keywords. This command requires keywords.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again with the required keywords.

Problem determination: Item 1.

APS652I **THE PARAMETER STATUS=TCPIP AND THE KEYWORDS SCOPE, EVENT, AND INTV ARE MUTUALLY EXCLUSIVE IN THE COMMAND DISPLAY.**

Explanation: Both the STATUS=TCPIP parameter and one or more of the keywords SCOPE, EVENT, and INTV are specified in the DISPLAY command. The keywords SCOPE, EVENT, and INTV can be specified only when STATUS=AFPDIST.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, specifying either:
- STATUS=TCPIP without the keywords SCOPE, EVENT, and INTV
- STATUS=AFPDIST with any of the keywords SCOPE, EVENT, and INTV

Problem determination: Item 1.

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APS653I   THE DISPLAY REQUEST FOR *component display_type* **CANNOT BE PERFORMED BECAUSE NO TCP/IP DESTINATION IS ACTIVE.**

Explanation: The request for a DISPLAY command cannot be performed because there are no TCP/IP printers active. *component* is the component or function, such as TCPIP, used for the DISPLAY command. *display_type* is the type of display, such as STATUS, requested from the DISPLAY command.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Make sure that the printer for which you want to issue the command is active and enter the command again.

Problem determination: Item 1.

APS654I   THE DISPLAY REQUEST FOR *component display_type* **FOR FSA NAME** *fsa_name* **IS NOT VALID. THIS DESTINATION IS** *attachment* **AND A TCP/IP-ATTACHED DESTINATION IS REQUIRED.**

Explanation: The request for a DISPLAY command cannot be performed because the destination for which it is requested is not TCP/IP-attached. The *component* is the component or function, such as TCPIP, used for the DISPLAY command. The *display_type* is the type of display, such as STATUS, requested from the DISPLAY command. The *attachment* is the type of attachment for the destination, which can be CHANNEL-ATTACHED, SNA-ATTACHED or UNKNOWN-ATTACHMENT.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command for a destination that is TCP/IP-attached.

Problem determination: Item 1.

APS655I   THE KEYWORDS EVENT=, SCOPE=, and INTV= MUST BE SPECIFIED WITH KEYWORD STATUS=AFPDP.

Explanation: The keywords EVENT, SCOPE and INTV can be used only on the MODIFY command with the DISPLAY parameter and the keyword STATUS=AFPDP.

System action: The command is ignored and

processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: If you entered a command other than MODIFY DISPLAY STATUS=AFPDP, reenter the command without the SCOPE, EVENT, or INTV keywords. If you meant to enter the command MODIFY DISPLAY STATUS=AFPDP, reenter the command and ensure that the STATUS=AFPDP keyword is included in the command.

Problem determination: Item 1.

APS656I   THE COMMAND DISPLAY STATUS=AFPDP CANNOT BE PROCESSED BECAUSE THERE ARE NO JOBS ON THE SPOOL.

Explanation: The command MODIFY DISPLAY STATUS=AFPDP can be processed only while AFP Download Plus is processing a job.

System action: If the value of the SCOPE keyword is ONCE (the default), the command is ignored. Otherwise, the command is queued for the next available job.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: If the value of the SCOPE keyword is ONCE, reenter the command while AFP Download Plus is processing a job. Otherwise, no response is necessary.

Problem determination: Item 1.

APS661I   INCORRECT PARAMETER (*parameter***) SPECIFIED FOR KEYWORD (***keyword***) IN COMMAND (***command***).**

Explanation: A parameter specified for a keyword is not valid.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, with the correct parameter for the keyword.

Problem determination: Item 1.

APS664I THE PARAMETER (*parameter*) IS MUTUALLY EXCLUSIVE WITH ANOTHER PARAMETER SPECIFIED IN KEYWORD (*keyword*) IN COMMAND (*command*).

Explanation: Two parameters have been specified that cannot be specified in the same keyword.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, with consistent keywords specified.

Problem determination: Item 1.

APS667I DUPLICATE PARAMETER (*parameter*) ENTERED FOR KEYWORD (*keyword*) IN COMMAND (*command*).

Explanation: A parameter was specified more than once in the keyword.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command without a duplicate parameter for the keyword.

Problem determination: Item 1.

APS668I A DELIMITER WAS FOUND WHERE A PARAMETER WAS EXPECTED — *command-text* — MODULE (*module name*).

Explanation: A delimiter was found where a parameter was expected. The last character of the *command-text* data is the incorrect delimiter.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, in the correct format.

Problem determination: Item 1.

APS669I NO PARAMETERS SPECIFIED FOR KEYWORD (*keyword*) IN COMMAND (*command*).

Explanation: A keyword cannot be entered without its associated parameters.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, with the correct keyword parameters.

Problem determination: Item 1.

APS670I UNBALANCED PARENTHESES — *command-text*.

Explanation: An ending parenthesis is missing from a command. *Command-text* was the data that was entered. The last character of *command-text* was the last position checked before PSF determined that a correct parameter list was not present.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command and the keyword parameter list in the correct format.

Problem determination: Item 1.

APS671I PARAMETER FOUND WHERE PRINTER NAME EXPECTED — *command-parameter*.

Explanation: A command was entered without the printer name. The command was entered as *command,parameter*, but it should be entered as *command,prtnnnn,parameters* if a printer name is to be specified. If a printer name is not to be specified, it should be entered as *command,,parameters*.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, with a printer name or with a comma to occupy the position of the printer name.

Problem determination: Item 1.

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APS672I **PARAMETER** *parameter* **IS NOT SUPPORTED BY THE AFP DOWNLOAD PLUS FEATURE OF PSF.**

Explanation: A parameter is specified that AFP Download Plus does not support.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, without the unsupported parameter.

Problem determination: Item 1.

APS683I **PRINTER NAME CANNOT BE SPECIFIED FOR A PSF COMMAND DURING INITIALIZATION.**

Explanation: The reply for message APS620A specified the printer name in the command. During initialization the printer name cannot be specified with any command. These commands take effect for the entire FSS; therefore the printer name is incorrect.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command without the printer name.

Problem determination: Item 1.

APS684I **PRINTER NAME (***printer-name***) IS NOT VALID IN COMMAND (***command***).**

Explanation: The printer name specified is not valid. The valid format of a printer name is *PRTnnnn*.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the correct format of the printer name.

Problem determination: None.

APS685I **PRINTER NAME CANNOT BE SPECIFIED FOR COMMAND (***command***).**

Explanation: A command was specified with a printer name, and the printer name parameter is not valid with this command.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again without a printer name.

Problem determination: Item 1.

APS686I **PRINTER NAME IS REQUIRED FOR COMMAND (***command***).**

Explanation: A command was specified without a printer name, and a printer name is required with this command.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, with a printer name.

Problem determination: Item 1.

APS687I **PRINTER NAME CANNOT BE SPECIFIED FOR COMMAND (***command***) WITH PARAMETER (***parameter***).**

Explanation: The printer name was specified for a command, but the parameter specified with this command does not allow the printer name to be specified.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again without a printer name.

Problem determination: Item 1.

APS690I **THE DISPLAY REQUEST FOR** *component display_type* **WAS NOT PERFORMED BECAUSE NO TCP/IP PRINTER WAS ACTIVE.**

Explanation: The request for a DISPLAY command could not be performed because there are no TCP/IP printers active. *component* is the component or function, such as TCPIP, used for the DISPLAY command. *display_type* is the type of display, such as STATUS,

requested from the DISPLAY command.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Make sure that the printer for which you want to issue the command is active and enter the command again.

Problem determination: Item 1.

APS691I   **NOT ENOUGH STORAGE TO PROCESS COMMAND QUEUES — STORAGE REQUESTED =** *storage requested*, **RETURN CODE =** *return code*.

Explanation: Additional storage was required in order to process the command queues, but this storage was not available. The return code is from the GETMAIN macro.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: Increase the REGION parameter on the startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS692I   **THE QEDIT REQUEST WAS UNSUCCESSFUL — RETURN CODE (**return code**).**

Explanation: An MVS QEDIT request to change the number of requests that could be queued for this FSS was unsuccessful. The return code is the code returned by the QEDIT macro.

System action: The operator interface is ended with a dump.

User response: No response is necessary.

System programmer response: For more information about the return codes from the QEDIT macro, see Appendix A, "Problem Determination"; also refer to *z/OS MVS Diagnosis: Tools and Service Aids*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 11.

APS693I   **THE MVS STOP COMMAND IS NOT VALID FOR THE PSF OPERATOR INTERFACE.**

Explanation: An MVS STOP command was entered for the PSF operator interface. The PSF operator interface processes only the MVS MODIFY command.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Use the MVS MODIFY command to enter PSF commands.

Problem determination: Item 1.

APS694I   *system function* **UNSUCCESSFUL FOR MODULE** *module name*, **RETURN CODE** *return code* **— MODULE (**issuing module**).**

Explanation: A system function was used to perform some task for the operator interface. The function returned a nonzero return code.

System action: Processing ends with an abend or error message. A subsequent PSF message notifies the operator of the action taken.

User response: No response is necessary.

System programmer response: For information about the return code, refer to *z/OS MVS Diagnosis: Tools and Service Aids*. If a dump was provided, see Chapter 2, "System Completion Codes and PSF Abend Reason Codes."

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 17, 19, 26.

APS695I   **FREEMAIN UNSUCCESSFUL FOR SUBPOOL** *subpool*, **RETURN CODE** *return code* **— MODULE (**issuing module**).**

Explanation: The FREEMAIN was unsuccessful. It returned a nonzero return code.

System action: Processing ends with an abend or an error message. A subsequent PSF message notifies the operator of the action taken.

User response: No response is necessary.

System programmer response: For information about the return code, refer to *z/OS MVS Diagnosis: Tools and Service Aids*. If a dump was provided, see Chapter 2, "System Completion Codes and PSF Abend Reason Codes."

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 17, 19, 26.

APS696I   PRINTER NAME CANNOT BE SPECIFIED FOR KEYWORD *keyword* **IN COMMAND** *command***.**

Explanation: The printer name was specified for command *command*, but keyword *keyword* specified with this command does not allow the printer name to be specified.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again without a printer name.

Problem determination: Item 1.

APS697I   PRINTER NAME IS REQUIRED FOR KEYWORD *keyword* **IN COMMAND** *command***.**

Explanation: The printer name was not specified with the keyword *keyword* used in command *command*.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command again, with the printer name.

Problem determination: Item 1.

APS698I   THE DISPLAY REQUEST FOR *component display_type* **FOR PRINTER** *printer_name* **IS NOT VALID — THIS PRINTER IS** *attachment***, HOWEVER, A TCP/IP PRINTER IS REQUIRED.**

Explanation: The request for a DISPLAY command could not be performed because the printer for which it was requested was not TCP/IP-attached. The *component* is the component or function, such as TCPIP, used for the DISPLAY command. The *display_type* is the type of display, such as STATUS, requested from the DISPLAY command. The *attachment* is the type of attachment for the printer, which can be CHANNEL-ATTACHED, SNA-ATTACHED or UNKNOWN-ATTACHMENT.

System action: The command is ignored and processing continues with the next command entered.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Enter the command for a printer that is TCP/IP attached.

Problem determination: Item 1.

APS699I   TCP/IP DISPLAY STATUS

Explanation: This message displays the TCP/IP status. To interpret the output, refer to *PSF for z/OS: Diagnosis*.

System action: This message is displayed when requested. PSF processing continues.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS700I   THE ERROR SENSE BYTES 0–5 = *error sense bytes 0–5*, **XP POSITION =** *xp position*, **YP POSITION =** *yp position*, **BUFFER OFFSET =** *printer buffer offset*, **PRINTER STATE =** *printer state*, **COMMAND=** *channel command*, **ERROR ID TYPE =** *error identification type*, **ERROR ID =** *error identification*, **COPY GROUP =** *code page*, **SENSE BYTES 18–23 =** *error sense bytes 18–23***.**

Explanation: This message formats and presents the 24 printer-sense bytes that were reported to PSF by a 3800 printer for a non-position check I/O error. A primary message describing the specific I/O error accompanies this message. The primary message should be sufficient for diagnosing and resolving a user error. This detailed sense byte message is intended for use by the system programmer or the IBM Support Center in diagnosing hardware or PSF logic errors.

- *Error sense bytes 0–5* are the first 6 bytes in the sense data, reported in hexadecimal. These bytes are used to identify the specific I/O error:
  - Byte 0—Error group
  - Byte 1—Check code or status code
  - Byte 2—Recovery Action code for this error condition
  - Byte 3—Dynamic conditions
  - Byte 4—X'00', or same as sense byte 1 or X'DE'
  - Byte 5—Depends on format of sense being issued
- *Xp position* is the print position on the X-axis at the time of the error, stated in pels. This information was obtained from bytes 6 and 7 of the sense data.
- *Yp position* is the print position on the Y-axis at the time of the error, stated in pels. This information was obtained from bytes 8 and 9 of the sense data.

- *Printer buffer offset* is the approximate number (in decimal) of the byte, in the data sent by the current channel command, that the printer was processing when it detected the error. This information was transformed from bytes 10 and 11 of the sense data.
- *Printer state* is the state of the printer at the time the error was detected. This information was formatted from byte 12 of the sense data.
  – X'00'—Home state
  – X'01'—Font index
  – X'02'—Font state
  – X'03'—Page state
  – X'04'—Page image state
  – X'05'—Reserved
  – X'06'—Reserved
  – X'07'—Overlay state
  – X'08'—Overlay image state
  – X'09'—Reserved
  – X'0A'—Reserved
  – X'0B'—Segment state
  – X'0C'—Segment image state
  – X'0D'—Reserved
  – X'0E'—Reserved
  – X'0F'—Compatibility mode
- *Channel command* is the channel command that was being processed at the time when the error was detected. This information was formatted from byte 13 of the sense data. If the reference manual for the 3800 printer is not available, these channel commands are also listed in *IBM System/370 Extended Architecture Reference Summary* (GX20-0157) or in *IBM Enterprise Systems Architecture/390 Reference Summary* (SA22-7209).
- *Error identification type* identifies the type of ID entry that is displayed in bytes 15 and 16 (the error identification). This information was formatted from byte 14 of the sense data. The values are:
  – X'80'—Font-related error (bytes 15 and 16 contain font ID)
  – X'40'—Segment-related error (bytes 15 and 16 contain segment ID)
  – X'20'—Overlay-related error (bytes 15 and 16 contain overlay ID)
  – X'10'—Suppression-related error (bytes 15 and 16 contain a suppression ID)
- *Error identification* is the font ID, segment ID, overlay ID, or suppression ID, as identified by the contents of the *error identification type* value. This information was formatted from bytes 15 and 16 of the sense data.
- *Copy subgroup* is the number of the active copy group, in decimal. To determine which copy subgroup was being printed at the time of the error, find the active form definition and medium map named in the accompanying environmental messages. In the medium map is a Medium Modification Control (MMC), which specifies the medium modifications to be applied for the copy subgroup specified in the Medium Copy Count (MCC) structured field. If all the copy subgroups specify simplex printing, the value

returned in these sense bytes refers to the nth copy subgroup listed in the MCC. Any copy subgroup that specifies duplex counts as two. This information was transformed from byte 17 of the sense data.
- *Error sense bytes 18–23*, in hexadecimal:
  – Byte 18: Last font number set from the font equivalence table.
  – Byte 19: Check group code ID used with bytes 0 and 1 to identify the error.
  – Bytes 20–23: Page ID sent with the Begin Page command.

  Note: If the printer is not in Page or Page Image state, the page ID is zero.

System action: See the accompanying messages for the system action that was taken.

User response: If the accompanying messages are not sufficient to identify the problem, contact your system programmer.

System programmer response: If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Operator Response: No response is necessary.

Problem determination: Items 2, 17, 27.

APS701I **WHEN THE ERROR(S) REPORTED ABOVE OCCURRED, THE ACTIVE {FORMDEF MEMBER NAME =** *formdef membername* **| MODIFIED-DEFAULT FORMDEF MEMBER NAME =** *formdef membername* **| FORMDEF TOKEN NAME =** *formdef tokenname* **| FORMDEF DATA SET NAME =** *formdef datasetname* **| PAGEDEF MEMBER NAME =** *pagedef membername* **| MODIFIED-DEFAULT PAGEDEF MEMBER NAME =** *pagedef membername* **| PAGEDEF TOKEN NAME =** *pagedef tokenname* **| PAGEDEF DATA SET NAME =** *pagedef datasetname* **| FORM ENVIRONMENT GROUP NAME =** *form environment groupname* **| ACTIVE ENVIRONMENT GROUP NAME =** *active environment groupname* **| MEDIUM MAP TOKEN NAME =** *mediummap tokenname* **| DATAMAP TOKEN NAME =** *datamap tokenname* **| DATAMAP TRANSMISSION SUBCASE TOKEN NAME =** *subcase tokenname* **| CODE PAGE NAME =** *codepage name* **| FONT NAME =** *font name* **| TRANSMISSION NUMBER IN ERROR WAS =** *transmission number* **| PAGE NUMBER IN ERROR WAS =** *page number* **| PRESENTATION OBJECT RESOURCE NAME =** *resource name***}.**

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Explanation: The page information and object names that were active at the time of the error are presented in this message. A subset of the pages and names listed in the message is associated with each error.

System action: Printing of the page or data set containing the error ends. Processing continues.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: No response is necessary.

Problem determination: Items 2, 17, 27.

APS702I   **THE PRINT POSITION EXTENDS OFF THE LOGICAL PAGE.**

Explanation: The print position exceeded the boundaries of the logical page to the right, bottom, left, or top. The direction in which the print position was off the page is relative not to the logical page, but to the paper as it moves through the printer. For example, the top of the sheet is the perforated edge that leads through the printer.

This error was reported because DATACK=UNBLOCK or BLKCHAR was specified in the OUTPUT JCL statement or the PRINTDEV JCL statement in the PSF initialization procedure or Print error reporting was specified as All or Character in the Printer Inventory. Print-error markers are printed on the page containing the error to indicate the position and the direction in which this position error occurred.

The error was caused by one or more of these:
- More characters were transmitted than can fit on a line in the logical page.
- More lines were transmitted than can fit on the logical page.
- The font selected from the form definition or defined either in the page definition or in the table reference character (TRC) caused the data to exceed the logical page.
- A positioning text-control sequence (Absolute Move Inline [AMI], Absolute Move Baseline [AMB], Relative Move Inline [RMI], or Relative Move Baseline [RMB]) positioned the print position outside of the physical page. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

The message containing the sense data that accompanies this message identifies the Xp and Yp position at the time of the error.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. The page in error is printed with print-error markers to indicate the position and direction of the positioning errors. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If your printed output would be acceptable, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATACK keyword on the JCL OUTPUT statement. For more information on how to code this keyword, refer to *PSF for z/OS: User's Guide.*

If you want to correct the source of the problem, and if you were printing MO:DCA data, check the current print position and either the characters per line, the lines per page, or both. Use a different font, if necessary, so that the print position is inside the printable area. Correct the size of the logical page so that it contains the print position. If you created the structured fields for the MO:DCA data, check the PTX structured field for positioning outside of the page.

If you want to correct the source of the problem, and if you were printing a data set containing line data, you could change the font selected from the page definition or the CHARS keyword in the JCL statements to a smaller font. If you were using a page definition and you created its structured fields, check the print-positioning values in the Line Descriptor (LND) structured field, and correlate them with the number of printable characters per line and the number of lines per page. You could also increase the logical page size by changing the Page Descriptor (PGD) structured field in the page definition.

If you want to correct the source of the problem, and if you were printing a data set containing line data with embedded structured fields, check the PTX structured field for positioning outside of the page.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS703I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A CFI OR MCF STRUCTURED FIELD CONTAINS FONT SECTION IDENTIFIERS WHICH ARE NOT IN ASCENDING ORDER.**

Explanation: The coded font section identifiers in the

Coded Font Index (CFI) structured field are not in ascending order. The CFI structured field is in the coded font.

System action: The printer you were using might try to print the page that contains the error, or might print only part of the page. If the page contains any positioning errors, print-error markers might be included on the printed page. PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured fields. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS704I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE IMAGE COLOR VALUE SPECIFIED IS NOT VALID OR IS UNSUPPORTED.

Explanation: The image color value specified is not valid or is unsupported by this printer. The image color value is specified on any of these structured fields:

- The IM Image Input Descriptor (IID).
- The Image Data Descriptor (IDD) for IOCA images.

The image or image cell might be contained in an overlay, a page segment, or MO:DCA data. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be

held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Color Fidelity triplet the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Contact your operator and ask that your previous print request, which was held, be purged. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

If you submitted the print request to the wrong printer, consult your operator to determine to which printer that data set should be rerouted.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that supports this function. For a JES command to release the data set for printing, refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* .

If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set,

or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS705I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE X- OR Y-COORDINATE FOR A PAGE OVERLAY IS NOT VALID OR IS UNSUPPORTED.**

Explanation: The X-coordinate or Y-coordinate for a page overlay is not valid or is unsupported. If the overlay containing the error is a secure overlay, this condition was caused by a PSF logic error. If the overlay containing the error is not a secure overlay, the coordinates are specified in the Include Page Overlay (IPO) structured field. The IPO structured field might be in the MO:DCA data or a page definition, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If the error involves a secure overlay, notify your system programmer of this error. If you created the structured fields for the print data set, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set, contact your system programmer.

System programmer response: If the error involves a secure overlay, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center. If the error does not involve a secure overlay, If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS706I   **A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INCORRECT OR UNSUPPORTED FINISHING OPERATION REFERENCE CORNER AND EDGE FOR THIS FINISHER.**

Explanation: The reference corner and edge field (byte 5) in a Finishing Operation triplet (X'85') contains an incorrect or unsupported value for this finisher.

Finishing Operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and the data set is marked unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.
- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.
- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to

REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS707I   A HARDWARE ERROR WAS DETECTED WHILE DATA WAS BEING TRANSFERRED TO THE PRINTER.

Explanation: While a data set was being processed, the printer presented a command reject I/O error indicating that the data transmission came to an abnormal end during a fast-buffer-release operation. For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF stops processing the data set being processed at the time of the error and marks it unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: If the data set was held by the system, consult the system operator to release the data set for printing. If PSF stopped processing the data set

but it was not held by the system, resubmit the data set for printing. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If the data set was held by the system, a JES message displays on the console. For a JES command to release the data set for printing, refer to the publication containing JES commands for your operating system.

Problem determination: Items 1, 8, 18.

APS708I   A CHARACTER IN THE PRINT DATA IS NOT DEFINED FOR THE FONT.

Explanation: One or more of these conditions occurred:

- An undefined character or a character that is not valid has been detected in Write Bar Code (WBC) command bar code data.

- An undefined character has been detected in the font specified for text, bar code human-readable interpretation (HRI), or graphics character-string data.

- An undefined character has been detected in Presentation Text (PTX) command data at the quality level specified.

When a code page is used, the flag byte parameter in either the Code Page Control (CPC) or a repeating group of the Code Page Index (CPI) structured field had the undefined bit set for a code point in the text data that was to be printed. The CPC and CPI structured fields are in the code page. This error occurred because DATACK=UNBLOCK or BLKPOS was specified in the OUTPUT JCL statement or the PRINTDEV JCL statement in the PSF initialization procedure or Print error reporting was specified as All or Character in the Printer Inventory. One of these conditions occurred:

- The code page did not include the code point, and the default character, specified by the CPC, had the not valid flag on.

- The character assigned to this code point did not exist in the character set, and the default character, specified by the CPC, had the not valid flag on.

- The code point, specified by the CPI structured field, had the not valid flag on.

For a Data-Object font used without a code page, a character was not defined for a code point. In this case, a special default character, such as Glyph Index 0 for a TrueType or OpenType font, is substituted for the missing character.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16-17) contains the

code point that caused the error. For double-byte fonts, byte 16 contains the section ID and byte 17 contains the second byte of the code point. For single-byte fonts, byte 17 contains the code point.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: To eliminate this error message from your output, you can resubmit the print request specifying BLOCK or BLKCHAR for the DATACK keyword on the JCL OUTPUT statement. For more information on how to code this keyword, refer to *PSF for z/OS: User's Guide*.

If you want to correct the source of the problem, you first need to identify which character in which font contains the error. If the printer returned the information about the incorrect character, check these:

- Immediately following this message (APS708I) is a formatted sense message (APS830I). The *element identifier* field in this message contains the code point in which the error occurs, or zeroes if the printer did not return the information.

- To determine which code page and font have this incorrect code point, check the APS701I messages. These are the environmental messages for this page. If the printer returned the information, one of the APS701I messages provides the *active code page name* and the *active character set name*.

Ensure that the code point in the print data is correct. If the code point is incorrect and you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information on the correct format of the referenced structured field. If you used a program to create the structured fields for the code page, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS709I   **DATA IN A FONT RESOURCE IS NOT VALID: THE FONT PATTERN DATA COUNT PARAMETER VALUE IN THE FNC STRUCTURED FIELD IS NOT VALID.**

Explanation: The Pattern Data Count parameter value in the Font Control (FNC) structured field is not valid. The FNC structured field is contained in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS710I   **DATA IN A FONT RESOURCE IS NOT VALID: THE DOUBLE-BYTE FONT CONTROL DATA WAS NOT THE SAME BETWEEN DOUBLE-BYTE FONT SECTIONS.**

Explanation: The printer detected this error while processing the font sections of a specified double-byte font. Except for two parameters, font sections are required to have identical data. The control data was not the same for one or more of the sections specified for the font. The font-control parameters must have unique data, except for these:

- Pattern Data Count in the Font Control (FNC) structured field

- Flag Byte in the Font Orientation (FNO) structured field

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request.

Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS711I   A PAPER JAM OR A POST PROCESSOR RESYNCHRONIZATION OCCURRED ON THE PRINTER DURING THE TRANSMISSION OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The paper in the printer was jammed, or a post processor was resynchronized. The printer detected and reported an asynchronous intervention-required error with an action code of X'08' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported the error.

System action: PSF resends pages to the printer, starting from the jam recovery page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which the recovery from this error was started. Pages might be duplicated during the recovery. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS712I   A PRINTER PROCESS POWER ERROR OCCURRED DURING THE TRANSMISSION OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: An error occurred with the process power of the printer. The printer detected and reported an asynchronous equipment check with an action code of X'0B' (sense-byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF resends pages to the printer, starting from the jam recovery page counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. Pages might be duplicated during the recovery. If repositioning is not supported in the current environment, PSF stops processing the data set. PSF also prints this message at the end of the print data set, to indicate that this message was printed within the print data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS713I   A PRINTER UNIT CHECK AFTER AN INITIAL MICROCODE LOAD OCCURRED DURING THE TRANSMISSION OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The printer presented a unit check to PSF with an action code of X'0D' (sense-byte 2) to indicate that an automatic or manual initial microcode load (IML) operation has been successfully completed. For more information about this error, refer to the printer publications for the printer that reported this error.

System action: Pages in the printer's page buffer and all resources in the printer are lost. If the printer is in the middle of finishing a group of pages, that finishing operation is not performed. The printer resets its page counters to zero. PSF resends pages to the printer, starting from the committed page counter. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. PSF also prints this message at the end of the data set to indicate that this message was printed within the data set. Pages might be duplicated during the recovery. If repositioning is not supported in the

current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS714I   AN ERROR OCCURRED WHILE PROCESSING AN ELECTRONIC OVERLAY OR A BASE PAGE IN THE PRINTER ACCUMULATOR.

Explanation: The printer detected and reported a data check with an action code of X'10' (sense byte 2). This message indicates one of these:

- The page or paper size is not compatible with accumulator data stored earlier.
- The base page was moved to accumulator storage and needs to be reloaded.
- The raster overlay in the accumulator storage needs to be reloaded.

System action: PSF causes the printer to discard the printer's buffered data and to delete all overlays, page segments, and fonts. On the first occurrence of this error, the message is printed on a separate sheet in the data set to mark the position before recovery starts. PSF recovers by resending pages to the printer, starting from the last known committed page counter plus 1. On the second occurrence of this error, the message is printed at the end of the message data set, and PSF stops processing the data set at the committed page counter plus 1.

User response: If the output is unacceptable, resubmit the print request. The overlay or page segment might need to be modified. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS715I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TEXT SUPPRESSION DID NOT END BEFORE THE PAGE ENDED.

Explanation: The printer detected a Begin Suppression (BSU) text control while it was processing

the page. The corresponding End Suppression (ESU) text control was not received before the page was completed. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS716I   FONT CONTAINS INCORRECT DATA: CHARACTER BOX SIZE X-EXTENT OR Y-EXTENT PARAMETER NOT VALID.

Explanation: The printer detected an incorrect value for the character-box size specified either in the Character Box X-Extent or in the Character Box Y-Extent parameter in the Font Control (FNC) structured field of the font being processed. The FNC structured field is in the font character set.

System action: PSF stops processing and printing the

data set that uses the font containing the error.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS717I   **THE ERROR SENSE BYTES 0–23 =** *error sense bytes 0–23*.

Explanation: This message presents the 24 printer sense bytes that were reported to PSF at the time of an I/O error.

System action: See the accompanying messages for the system action that was taken.

User response: If the accompanying messages are not sufficient to identify the problem, contact your system programmer.

System programmer response: If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error. If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 8, 18.

APS718I   **DATA IN A FONT RESOURCE IS NOT VALID: THE UNIFORM CHARACTER BOX SIZE X-EXTENT AND Y-EXTENT PARAMETER VALUES ARE NOT EQUAL IN THE FNC STRUCTURED FIELD.**

Explanation: The printer detected that the width and

length values for the character-box size for a font specified to be non-uniform were not equal (for example, the font has variable character-box sizes). The character box X-Extent and the character box Y-Extent, specified in the Font Control (FNC) structured field, must be equal for non-uniform fonts. The Uniform Character Box Size parameter in the FNC structured field indicates whether the character box size of a font is uniform or non-uniform. The FNC structured field is contained in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS719I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE INPUT DATA SELECTED A DOUBLE-BYTE FONT SECTION IDENTIFIER THAT IS NOT WITHIN THE RANGE OF THE FONT SPECIFIED TO PRINT THE DATA.**

Explanation: While processing double-byte data, the printer detected a font section identifier that could not be used. Either the coded font specified to print the data did not contain a section with that identifier, or the section identifier was not in the valid range. The font section identifier is the first byte of the two-byte character code in a double-byte data stream.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16-17) contains the code point that caused the error. For double-byte fonts, byte 16 contains the section ID and byte 17 contains the second byte of the code point.

System action: The printer you were using might try to print the page in error. The entire page might not be

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printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: Verify that the appropriate font was selected and that the section identifier coded in the print data for the character is valid. Valid ranges for font section identifiers are described in *Advanced Function Presentation: Programming Guide and Line Data Reference*. If the font section identifier is valid, ensure that a font section with that identifier is included in the double-byte coded font you want to use.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS720I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE SET VARIABLE SPACE INCREMENT TEXT CONTROL IS OUTSIDE THE VALID RANGE.

Explanation: The Set Variable Space Increment (SVI) text-control sequence is outside the valid range. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you

were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS721A A PRINTER PROCESS POWER ERROR OCCURRED ON PRINTER DEVICE = *prtnnnn*. SENSE BYTES 0-23 = *error sense bytes 0-23*. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The printer detected and reported an equipment check error with an action code of X'0B' (sense-byte 2). The printer identified by the address reported in this message requires the operator to restore power to the printer process. For more information about this error, or to interpret the printer sense bytes, refer to the printer publications for the printer that reported this error.

System action: After the printer has been readied, PSF resends pages to the printer, starting from the jam recovery page counter plus 1. PSF prints a message on a separate sheet in the data set to mark the position where the recovery from this error was started. PSF also prints the same message at the end of the data set to indicate that the message was printed within the data set. Pages might be duplicated during the recovery. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Restore power to the printer and press RESET or READY.

Problem determination: Items 1, 8, 18.

APS722I **A PRINTER SUBSYSTEM RUN RESET WITH A POSSIBLE PAPER JAM OCCURRED DURING THE TRANSMISSION OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.**

Explanation: The printer detected and reported an asynchronous intervention-required error with an action code of X'08' (sense-byte 2). An unexpected RESET command was received and might have caused the printer's paper path to jam. For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF resends pages to the printer, starting from the jam recovery page counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. Pages might be duplicated during the recovery. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error, and clear the paper jam in the printer. PSF assumes that pages between the jam recovery page counter and the stacked page counter are not damaged by the paper jam and do not need to be reprinted. If any pages between these two page counters need to be reprinted, use the JES BACKSPACE command.

Problem determination: Items 1, 8, 18.

APS723I **DATA IN A FONT RESOURCE IS NOT VALID: THE UNIFORM CHARACTER INCREMENT PARAMETER IN THE FNO STRUCTURED FIELD IS NOT VALID.**

Explanation: The Uniform Character Increment parameter in the Font Orientation (FNO) structured field is not valid. The FNO structured field is contained in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer

logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS724I **{RPS | WCS | CPS | FONT} PRINTER STORAGE LIMIT WAS EXCEEDED WHILE LOADING OBJECTS FOR THE PAGE. THE PAGE RETRY ATTEMPT MAY CAUSE A PARTIAL OR BLANK PAGE TO APPEAR IN THE OUTPUT.**

Explanation: The printer detected and reported an out-of-storage print error with an action code of X'0C' (sense-byte 2). The requirement for raster-pattern storage (RPS), writable-control storage (WCS), compressed-pattern storage (CPS), or font storage (FONT) exceeded the available storage resources of the printer.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: PSF recovers from this out-of-storage print error by deleting all resources (for example, overlays, page segments, and fonts) that are not required for the current page being sent to the printer. PSF then resends pages to the printer, starting from the Received Page ID. If the error condition persists, PSF issues message APS725I, skips the page containing the error, and continues processing the current data set with the page after the page containing the error. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: If the printed output is not acceptable, make the page less complicated by deleting resources (for example, overlays, page segments, and fonts) or print the data set on a printer with more of the type of storage that was exceeded. For more information on how to simplify the print job, refer to *Printer Information*.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the

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operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS725I   **{RPS | WCS | CPS | FONT} PRINTER STORAGE LIMIT WAS EXCEEDED WHILE LOADING OBJECTS DURING A PAGE RETRY. THE PAGE IS SKIPPED AND PROCESSING CONTINUES ON THE NEXT PAGE.**

Explanation: The printer detected and reported an out-of-storage error with an action code of X'0C' (sense-byte 2). The requirement for raster-pattern storage (RPS), writable-control storage (WCS), compressed-pattern storage (CPS), or font storage (FONT) exceeded the available storage resources of the printer. PSF detected that this was the second resource-constrained error for the page containing the error. (See message APS724I.) This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: PSF recovers from this out-of-storage printer error by skipping the page containing the error, because this is the second attempt to send it to the printer. PSF continues processing the current data set with the page after the page containing the error. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: If the data stream errors stopped processing of the page just before the page for which APS725I was issued, correct the data stream errors first and resubmit the print request. The condition that caused message APS725I to be issued might be resolved after the other errors have been corrected. If this situation does not apply, make the page less complicated by deleting resources (for example overlays, page segments, and fonts), or print the data set on a printer with more of the type of storage that was exceeded.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS726I   **DATA IN A FONT RESOURCE IS NOT VALID: THE ORIENTATION PARAMETER IN THE FNO STRUCTURED FIELD IS NOT VALID.**

Explanation: The Orientation parameter in the Font Orientation (FNO) structured field is not valid. The FNO structured field is contained in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS727I   **DATA IN A FONT RESOURCE IS NOT VALID: THE UNIFORM BASELINE OFFSET PARAMETER IN THE FNO STRUCTURED FIELD IS NOT VALID.**

Explanation: The Uniform Baseline Offset parameter in the Font Orientation (FNO) structured field is not valid. The FNO structured field is contained in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the

font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS728I   **DATA IN A FONT RESOURCE IS NOT VALID: THE FLAG BYTE PARAMETER IN THE FNO STRUCTURED FIELD IS NOT VALID.**

Explanation: The Font Index Number, bits 0–2 of the Flag Byte parameter, in the Font Orientation (FNO) structured field is not valid. The FNO structured field is contained in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS729I   **DATA IN A FONT RESOURCE IS NOT VALID: A PATTERN DATA ADDRESS IN AN FNM STRUCTURED FIELD IS NOT VALID.**

Explanation: Repeating group entries in the Font Pattern Map (FNM) structured field must be in ascending order by the Pattern Data Address. The Pattern Data Address parameter must not point within the raster pattern data of a previous pattern or past the

end of a character pattern data. The FNM structured field is in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS730I   **THE TOTAL NUMBER OF MEDIUM OVERLAYS SPECIFIED ON THE OUTPUT STATEMENT, PRINTDEV STATEMENT, IN THE PRINTER INVENTORY, AND/OR MEDIUM MAP EXCEEDS WHAT THE PRINTER CAN SUPPORT FOR ONE PHYSICAL PAGE.**

Explanation: When the number of overlays specified in the Medium Modification Control (MMC) structured field and the number of medium overlays specified on the OUTPUT and/or PRINTDEV statement or in the Printer Inventory are added, the total exceeds what this printer can support on a physical page (one side of a sheet). The MMC structured field is contained in the form definition.

The limit for the total number of overlays depends on the printer you use.

System action: PSF stops processing the data set that was being processed at the time of the error and marks it unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: Change the output class for the next submission. Consult the system operator to have the print request released to a printer that can print the total number of overlays on that page. If you do not have access to a printer that can support that number of

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overlays on a page, the number of overlays needs to be decreased. If you created the form definition that contains the MMC structured field, you must remove one or more of the overlays, depending on how many medium overlays were specified. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. Resubmit the print request. If the total number of user overlays and OUTPUT/PRINTDEV statement medium overlays is less than or equal to what this printer should support, the error might be a PSF logic error.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data set release commands to release the data set to a printer that can handle a larger number of medium overlays. To find the JES command to release the data set for printing, refer to the publication containing JES commands for your operating system.

Problem determination: Items 2, 17, 28.

APS731I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN EMBEDDED TEXT CONTROL IS NOT VALID.

Explanation: An incorrect text control code was found. The text control came from a Text Data (PTX) structured field or was generated by PSF from a page definition. The Presentation Text Data (PTX) structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

| **Note:** In the formatted sense message (APS830I), the Element Identifier (bytes 16-17) contains the unsupported or unrecognized PTOCA control sequence function type that causes this error. Byte 16 contains X'00' and byte 17 contains the function-type value.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the

PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS732I   DATA IN A FONT RESOURCE IS NOT VALID: NONMATCHING DOUBLE-BYTE FONT SECTIONS.

Explanation: The structured fields making up sections X'45' through X'FE' of a double-byte font do not contain matching values. Parameters that do not have to be identical are the section ID, from the Map Coded Font (MCF) or the Coded Font Index (CFI) structured field; the Font Byte Count, from the Font Control (FNC) structured field; the Character Data Alignment, from the FNC structured field; and the Character Pattern Descriptors, from the Font Patterns Map (FNM) structured field. Some parameters have to match for the same character rotation of all sections in a double-byte font. For more information, refer to the printer publications describing the sense data received in the accompanying PSF message.

The CFI structured field is in the coded font. The FNC, FNM, and FND structured fields are in the font character set. The CPC structured field is in the code page. The MCF structured field is contained in a MO:DCA document, an overlay, or a page definition.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to

create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS733I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE X COORDINATE FOR THE IMAGE BLOCK ORIGIN IS OUT OF RANGE IN AN IOC STRUCTURED FIELD.

Explanation: The X-coordinate value specified in the Image Block Origin parameter of an Image Output Control (IOC) structured field is outside of the valid range. The value is specified in absolute I-units. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS734I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE Y COORDINATE FOR THE IMAGE BLOCK ORIGIN IS OUT OF RANGE IN AN IOC STRUCTURED FIELD.

Explanation: The Y-coordinate value specified in the Image Block Origin parameter of an Image Output Control (IOC) structured field is outside of the valid range. The value is specified in absolute B-units. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS735I   SELECTED PHYSICAL MEDIA TO BE FINISHED CANNOT BE SENT TO THE SELECTED MEDIA DESTINATION.

Explanation: The physical media cannot be sent to the selected media destination. The printer cannot continue processing the data set.

System action: PSF stops processing and printing the data set.

User response: Follow these steps:

- Ensure that the input media source is valid and that it contains the appropriate media for the finishing operation being performed. The input media source can be selected in the form definition, or PSF uses the default media source for the printer.

- Ensure that the output media destination is valid for the finishing operation being performed. The media destination can be selected on the JCL OUTPUT statement with the OUTBIN keyword, or PSF uses the default media destination.

- Verify that you have requested the appropriate form definition for the finishing operation intended.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS736I   PARAMETERS IN A FORMDEF RESOURCE ARE INCOMPATIBLE: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES INCOMPATIBLE FINISHING OPERATION TRIPLETS.

Explanation: The Medium Finishing Control (MFC) structured field contains Finishing Operation triplets that are incompatible. Compatible combinations of finishing operations are specific to a particular presentation device.

The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and the data set is marked unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error

contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'021'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

APS737I **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE X COORDINATE SPECIFIED IN THE PAGE ORIGIN PARAMETER IN A PGP STRUCTURED FIELD IS OUT OF RANGE.**

Explanation: The X-coordinate value in the Page Origin parameter in the Page Position (PGP) structured field is outside of the valid range. The PGP structured field is in the form definition.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS738I **DATA IN A FORMDEF RESOURCE IS NOT VALID: THE Y COORDINATE SPECIFIED IN THE PAGE ORIGIN PARAMETER IN A PGP STRUCTURED FIELD IS OUT OF RANGE.**

Explanation: The Y-coordinate value in the Page Origin parameter in the Page Position (PGP) structured field is outside of the valid range. The PGP structured field is in the form definition.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to

create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS739I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: ADDITIONAL DATA IS NEEDED TO COMPLETE EITHER AN EMBEDDED TEXT CONTROL CHAINED SEQUENCE OR A DOUBLE-BYTE FONT CHARACTER CODE.**

Explanation: One of these conditions caused this error:

- Chained text-control sequences that did not end correctly were encountered.
- The text-control sequences came from a Presentation Text Data (PTX) structured field or were generated by PSF from a page definition.
- A double-byte font character code is missing.
- Data in a Write Image 2 or Write Graphics command did not end correctly. This results when a command other than a WI2 (WG) or Execute Order Anystate command is encountered between a Begin Segment/End Segment pair.
- If the IM1 image resolution in the IID structured field does not match the printer resolution, PSF attempts to convert the IM1 image to Image Object Content Architecture (IOCA) (if the printer supports IOCA). During this conversion process, IM1 structured fields are converted to IOCA Intelligent Printer Data Stream (IPDS) commands. This error occurs in either of these conditions:
  - If a Set Home State command occurs before the entire image data is sent to the printer.
  - If an error is detected in the process of outputting image data that causes PSF to stop processing the page.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

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User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the appropriate structured field. For more information, refer to *Mixed Object Document Content Architecture Reference*. If you used a program to create the structured fields for the MO:DCA print data set, overlay, or page segment, consult your system programmer.

If you were printing a data set containing line data with embedded structured fields, correct the appropriate structured field. If the structured field has no errors, consult your system programmer.

If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error. Consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS740I   **DATA IN A FONT RESOURCE IS NOT VALID: THE MAXIMUM BASELINE EXTENT PARAMETER IN THE FNO STRUCTURED FIELD IS NOT VALID.**

Explanation: The Maximum Baseline Extent parameter in the Font Orientation (FNO) structured field parameter is not valid. The FNO structured field is contained in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for*

z/OS: Customization for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS741I   **THE UPA DIMENSIONS SPECIFIED EXCEEDED THE MAXIMUM ALLOWED.**

Explanation: The sum of the Xm (or Ym) coordinate of the User Printable Area (UPA) origin and the Xm extent of the User Printable Area specified in the security definitions library member exceeds the maximum value that can be represented in the printer. The UPA dimensions are specified in the security definitions library.

System action: PSF stops processing and printing the data set.

User response: Inform your system programmer that this error occurred.

System programmer response: Decrease the size of the UPA dimensions in the security definitions library member. Refer to *PSF for z/OS: Security Guide* for information about the format of the security definitions library.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot print a separator page or print error messages. Inform your system programmer that this error occurred.

Problem determination: Items 1, 2, 17, 27.

APS742I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE HORIZONTAL PRINT LIMIT FOR THE LOGICAL PAGE IS NOT VALID IN THE PGD STRUCTURED FIELD.**

Explanation: The Horizontal Page Size parameter in the Page Descriptor (PGD) structured field is not valid. The PGD structured field is in MO:DCA data, an overlay, or a page definition.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing MO:DCA data or an overlay and you created the structured fields in the object containing the error, change the page size in the print data set or an overlay. If you were printing

MO:DCA data or an overlay and you used a program to create the structured fields in the object containing the error, change your input to that program to change the paper size. If you were printing a data set containing line data, change the page size in the page definition.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS743I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE VERTICAL PRINT LIMIT FOR THE LOGICAL PAGE IS NOT VALID IN THE PGD STRUCTURED FIELD.

Explanation: The Vertical Page Size parameter in the Page Descriptor (PGD) structured field is not valid. The PGD structured field is in the MO:DCA data, an overlay, or a page definition.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing MO:DCA data or an overlay and you created the structured fields in the object containing the error, change the page size in the print data set or overlay. If you were printing MO:DCA data or an overlay and you used a program to create the structured fields in the object containing the error, change your input to that program to change the page size. If you were printing a data set containing line data, change the page size in the page definition.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS746I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE WIDTH PARAMETER OF A DRAW INLINE RULE OR DRAW BASELINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD IS NOT VALID.

Explanation: The Width parameter in the Draw Inline Rule (DIR) or Draw Baseline Rule (DBR) text-control sequence either is greater than the maximum width or is less than the minimum width. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS747I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE WIDTH PARAMETER OF A DRAW INLINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD IS LESS THAN THE MINIMUM WIDTH.

Explanation: The Width parameter in the Draw Inline Rule (DIR) text-control sequence is less than the minimum width. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS748I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE LENGTH PARAMETER OF A DRAW INLINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD IS OUTSIDE THE VALID RANGE.

Explanation: The Length parameter in the Draw Inline Rule (DIR) text control is outside the valid range. The text-control sequence is in a Presentation Text Data (PTX) structured field. The PTX structured field might be in the MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS749I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE WIDTH PARAMETER OF A DRAW BASELINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD EXCEEDS THE MAXIMUM WIDTH.**

Explanation: The Width parameter in the Draw Baseline Rule (DBR) text control exceeds the maximum width. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS750I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE WIDTH PARAMETER OF A DRAW BASELINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD IS LESS THAN THE MINIMUM WIDTH.**

Explanation: The Width parameter in the Draw Baseline Rule (DBR) text control is less than the minimum width. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS751I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE LENGTH PARAMETER OF A DRAW BASELINE RULE TEXT CONTROL IN A PTX STRUCTURED FIELD IS OUTSIDE THE VALID RANGE.**

Explanation: The Length parameter in the Draw Baseline Rule (DBR) text control is outside the acceptable range. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS753I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN ATTEMPT WAS MADE TO PRINT WITH A FONT THAT DID NOT MATCH THE CURRENT TEXT ORIENTATION.**

Explanation: The Set Coded Font Local (SCFL) text-control sequence was not specified after the text orientation was changed. When the text orientation changes, the SCFL text-control sequence should be specified after the Set Text Orientation (STO) text control sequence, unless the current font is usable in the new orientation. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTX structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error.

If you were using a page definition to print a data set containing line data, and you created the structured fields for the page definition, specify a valid value for the text orientation parameter in the Line Descriptor (LND) structured field, or specify a font that can be printed in the original text orientation. If you used a program to create the structured fields for the page definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS754I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE BEGIN AND END SUPPRESSION IDENTIFIERS IN A BEGIN/END SUPPRESSION TEXT CONTROL DID NOT MATCH.**

Explanation: An End Suppression (ESU) text-control sequence that identifies the end of a passage of suppressible text must include the print-suppression number used in the Begin Suppression (BSU) text control. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS755I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: NESTING OF SUPPRESSION TEXT CONTROLS IS NOT ALLOWED.**

Explanation: A Begin Suppression (BSU) text control was received before the preceding Begin Suppression (BSU) text control was ended by an accompanying End Suppression (ESU) text control. The printer you were using when the error occurred does not allow this. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS756I   DATA IN AN OVERLAY RESOURCE IS NOT VALID: BEGIN/END SUPPRESSION TEXT CONTROLS ARE NOT ALLOWED INSIDE AN OVERLAY.

Explanation: A Begin Suppression (BSU) and an End Suppression (ESU) text-control sequence was specified within an overlay. The printer you were using when the error occurred does not allow this. The text-control sequence is in a Presentation Text Data (PTX) structured field.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the overlay, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the overlay, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS757I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE ORIENTATION OF THE FONT IS INCOMPATIBLE WITH THE CURRENT TEXT ORIENTATION.

Explanation: The orientation of the font selected to print the text does not match the current text orientation. The current text orientation is defined in a Set Text Orientation (STO) text control in a Presentation Text Data (PTX) structured field or, if you were printing a data set containing line data, in a Line Descriptor (LND) structured field in the page definition. The PTX structured field might be in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data. The font is named in a Map Coded Font (MCF) structured field, in the page definition or in the CHARS option of the JCL. The MCF structured field

is in the MO:DCA data, an overlay, or a page definition.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If the orientation was correct but the font was wrong, specify a different font that is compatible with the desired text orientation.

If the orientation was incorrect and if you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, change the text orientation value in the STO text control. Refer to *Mixed Object Document Content Architecture Reference* for more information about specifying text orientation. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If the orientation was incorrect and you were printing a data set containing line data with a page definition that you created, change the Text Orientation value in the LND structured field. If you were printing a data set containing line data, and using a page definition created by a program, consult your system programmer.

If the orientation was incorrect and you were printing a data set containing line data with embedded structured fields, change the text orientation value in the STO text control. Refer to *Mixed Object Document Content Architecture Reference* for more information about specifying text orientation.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS758I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE CODED FONT LOCAL IDENTIFIER OF A SET CODED FONT LOCAL TEXT CONTROL IS NOT VALID.

Explanation: The Coded Font Local Identifier parameter in the Set Coded Font Local (SCFL) text control in a Presentation Text Data (PTX) structured field or in the Line Descriptor (LND) structured field in

the page definition is outside the valid range. The Presentation Text Data (PTX) structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the identifier in the SCFL text control. If the SCFL text control has no errors, the error might be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data, and you were using a page definition that you created, correct the identifier in the LND structured field. If the LND structured field has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data, and you were using a page definition that you created by use of a program, consult your system programmer.

If you were printing a data set containing line data with embedded structured fields, correct the identifier in the SCFL text control. If the SCFL text control has no errors, the error might be a PSF or printer logic error.

For the valid values of the Coded Font Local Identifier in the appropriate structured field, refer to *Mixed Object Document Content Architecture Reference*.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS759I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE TEXT ORIENTATION PARAMETER VALUE OF A SET TEXT ORIENTATION TEXT CONTROL IS NOT VALID.

Explanation: The Text Orientation parameter in the

Set Text Orientation (STO) text control in a Presentation Text Data (PTX) structured field, or in a Line Descriptor (LND) structured field in the page definition, is not valid. The Presentation Text Data (PTX) structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the value in the STO text control.

If the STO text control has no errors, the error might be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data using a page containing line data using a page definition that you created, correct the value in the LND structured field. If the LND structured field has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data using a page definition that you created using a program, consult your system programmer.

If you were printing a data set containing line data with embedded structured fields, correct the identifier in the STO text control. If the STO text control has no errors, the error might be a PSF or printer logic error.

Refer to *Mixed Object Document Content Architecture Reference* for the acceptable values of the Text Orientation parameter in the appropriate structured field.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS760I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE INLINE COORDINATE PARAMETER VALUE OF A SET INLINE MARGIN TEXT CONTROL IS NOT VALID.**

Explanation: The Inline Coordinate parameter in the Set Inline Margin (SIM) text-control sequence is not valid. The text-control sequence is in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data. If the error occurred while PSF was processing line data, the Inline Position parameter in a Line Descriptor (LND) structured field in the page definition might be incorrect .

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS761I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE BASELINE INCREMENT PARAMETER VALUE OF A SET BASELINE INCREMENT TEXT CONTROL IS NOT VALID.**

Explanation: The Baseline Increment parameter in the Set Baseline Increment (SBI) text-control sequence is not valid. The text-control sequence is in a Presentation Text Data (PTX) structured field or was generated by the PSF from a page definition. The PTX structured field might be in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS762I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE INTERCHARACTER INCREMENT PARAMETER VALUE OF A SET INTERCHARACTER INCREMENT TEXT CONTROL IS NOT VALID.

Explanation: The Intercharacter Increment parameter or the optional Intercharacter Adjustment Direction parameter in the Set Intercharacter Increment (SII) text control is not valid. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS763I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE BASELINE POSITION IS NOT VALID.

Explanation: The Baseline Print Position parameter is not valid. It might have been specified in any of three places:

- The Absolute Move Baseline (AMB) text-control sequence in a Presentation Text Data (PTX) structured field
- The Page Segment Origin in an Include Page Segment (IPS) structured field
- The Baseline Position parameter in a Line Descriptor (LND) structured field

The PTX or IPS structured field might be in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data. The LND structured field is in the page definition.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the position parameter in the appropriate structured field. If the structured field has no errors, the error might be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data using a page definition that you created, correct the position parameter in the LND structured field. If the LND structured field has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data using a page definition that you created using a program, consult your system programmer.

If you were printing a data set containing line data with embedded structured fields, correct the position parameter in the appropriate structured field. If the structured field has no errors, the error might be a PSF or printer logic error.

For the valid values of the Baseline Position parameter in the appropriate structured field, refer to *Advanced Function Presentation: Programming Guide and Line Data Reference*. Ensure that the AMB (Absolute Move Baseline) text control fits within the logical page size as defined by the Load Page Descriptor (LPD) command in the page definition.

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System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS764I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE INLINE POSITION IS NOT VALID.

Explanation: The Inline Position parameter is not valid. It might have been specified in any of three places:

- The Absolute Move Inline (AMI) text-control sequence in a Presentation Text Data (PTX) structured field
- The Page Segment Origin in an Include Page Segment (IPS) structured field
- The Inline Position parameter in a Line Descriptor (LND) structured field

The PTX or IPS structured field might be in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data. The LND structured field is in the page definition.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the position parameter in the appropriate structured field. If the structured field has no errors, the error might be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data using a page definition that you created, correct the position parameter in the LND structured field. If the LND structured field has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data using a page definition that you created using a program, consult your system programmer.

If you were printing a data set containing line data with embedded structured fields, correct the position parameter in the appropriate structured field. If the structured field has no errors, the error might be a PSF or printer logic error.

For the valid values of the Inline Position parameter in the appropriate structured field. refer to *Advanced Function Presentation: Programming Guide and Line Data Reference*. Ensure that the AMI (Absolute Move Inline) text control fits within the logical page size as defined by the Load Page Descriptor (LPD) command in the page definition.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS765I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE INLINE PRINT POSITION MOVE PARAMETER VALUE OF A RELATIVE MOVE INLINE TEXT CONTROL IN A PTX STRUCTURED FIELD IS NOT VALID.

Explanation: The Inline Print Position Move parameter value is not valid in the Relative Move Inline (RMI) text control. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you

were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS766I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE BASELINE PRINT POSITION MOVE PARAMETER VALUE OF A RELATIVE MOVE BASELINE TEXT CONTROL IN A PTX STRUCTURED FIELD IS NOT VALID.

Explanation: The Baseline Print Position Move parameter in the Relative Move Baseline (RMB) text-control sequence is not valid. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTX structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA data set, an overlay, or a page segment, consult your system programmer.

If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no

errors, the error might be a PSF or printer logic error.

If you were printing a data set containing line data using a page definition, and you created the structured fields for the page definition, specify a valid value for the text orientation parameter in the Line Descriptor (LND) structured field, or specify a font that can be printed in the original text orientation. If you used a program to create the structured fields for the page definition, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS767I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE TEXT STRING PARAMETER'S LENGTH OF A REPEAT STRING TEXT CONTROL IN A PTX STRUCTURED FIELD IS OUTSIDE THE VALID RANGE.

Explanation: The length of the Text String parameter in the Repeat String (RPS) text control is outside the valid range. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no

errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS768I   DATA IN A FONT RESOURCE IS NOT VALID: A VALID LOAD FONT INDEX COMMAND CANNOT BE BUILT.

Explanation: While an index for the font was being loaded into the printer, incorrect data was detected. The error could be in any of these structured fields:
- Code page control (CPC)
- Code page index (CPI)
- Font index (FNI)
- Font orientation (FNO)

The CPC and CPI structured fields are in the code page, but the FNI and FNO structured fields are in the font character set. This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: PSF stops processing and printing the data set that uses the font containing the error.

User response: If you created the structured fields for the font or code page, check each of the parameters in each of the structured fields. For more information on the correct format of the referenced structured fields, refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference*. If the structured fields have no errors, the error might be a PSF or printer logic error. If you created the structured fields for the font or code page using a program, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured field for the font or the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS769I   DATA IN A CODED FONT RESOURCE IS NOT VALID: THE FONT SECTION IDENTIFIER IS NOT ACCEPTABLE OR IS NOT IN SEQUENCE IN THE CFI STRUCTURED FIELD.

Explanation: The Coded-Font Section Identifier parameter in a repeating group in the Coded Font Index (CFI) structured field is either not valid or is out of sequence. The CFI structured field is in the coded font.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS770I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE COLOR SPACE VALUE IN A X'4E' TRIPLET, SET EXTENDED COLOR CONTROL SEQUENCE OR SET PROCESS COLOR DRAWING ORDER IS NOT VALID OR IS UNSUPPORTED.

Explanation: The color space field in a X'4E' triplet,

Set Extended Color control sequence, or Set Process Color drawing order contained an incorrect or unsupported value for this printer.

The X'4E' triplet might have occurred on these structured fields:

- A Page Descriptor (PGD).
- An Object Area Descriptor (OBD).

The PGD is contained in an Active Environment Group (AEG) for a page or an overlay, and the OBD is contained in an Object Environment Group (OEG) for a graphics, image, or bar code object, or an object container.

The Set Extended Color control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data.

The Set Process Color drawing order is located in a Graphics Data (GAD) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or, it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

If the object is in a resource, PSF stops processing the data set that uses the resource in error.

User response: If the structured fields are not valid and you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

If the color value is unsupported by this printer, resubmit the print request to a printer that does support this color value.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS771I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE IMAGE HORIZONTAL PEL COUNT VALUE IS LESS THAN 1 PEL IN AN ICP OR IID STRUCTURED FIELD.

Explanation: The size of an image cell or image block in the X-dimension is less than the minimum allowed. The size might be specified in the X-dimension subparameter of these:

- The Image Cell Size parameter in the Image Cell Position (ICP) structured field
- The Image Size parameter in the Image Input Descriptor (IID) structured field

The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

System action: If the image is in a page, the printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

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**APS772I   DATA IN AN INPUT RECORD OR
              RESOURCE IS NOT VALID: THE IMAGE
              HORIZONTAL PEL COUNT VALUE IS
              GREATER THAN THE MAXIMUM
              ALLOWED IN AN ICP OR IID
              STRUCTURED FIELD.**

Explanation: The size of an image block or image cell
in the X-dimension is greater than the maximum
allowed. The size might be specified in the X-dimension
subparameter of these:

- The Image Cell Size parameter in the Image Cell
  Position (ICP) structured field
- The Image Size parameter in the Image Input
  Descriptor (IID) structured field

The image block or image cell might be contained in an
overlay, a page segment, or a MO:DCA document. It
might also be embedded in a data set containing line
data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content
Architecture (IOCA), PSF might have converted your
IOCA image to an IM1 image. In this case, the IDD
structured field contains an image X-dimension that is
larger than the maximum allowed.

System action: If the image is in a page, the printer
you were using might try to print the page in error. The
entire page might not be printed. If the page in error
contains any positioning errors, then print-error markers
might be included on the printed page. PSF continues
the processing of the current data set with the page
following the page in error, unless the printer reported
another error that required a more severe PSF recovery
action. If the image is in a resource, PSF stops
processing the data set that uses the resource in error.

User response: If you created the structured fields for
the resource or print data set containing the image,
correct the error in the referenced structured field and
resubmit the print request. Refer to *Mixed Object
Document Content Architecture Reference* for more
information about the structured field. If the structured
field has no error, the error might be a PSF or printer
logic error. If you used a program to create the
structured fields for the resource or print data set
containing the image, contact your system programmer.

System programmer response: If an IBM licensed
program was used to create the structured fields for the
print data set or the resource with the error, verify that
the input to that program was valid. If the input was
valid, refer to *PSF for z/OS: Diagnosis* for assistance in
determining the source of the problem.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page or
the message data set in the PSF startup procedure.
Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

**APS773I   DATA IN AN INPUT RECORD OR
              RESOURCE IS NOT VALID: THE IMAGE
              VERTICAL PEL COUNT VALUE IS LESS
              THAN 1 PEL IN AN ICP OR IID
              STRUCTURED FIELD.**

Explanation: The size of an image cell or image block
in the Y-dimension is less than the minimum allowed.
The size might be specified in the Y-dimension
subparameter of these:

- The Image Cell Size parameter in the Image Cell
  Position (ICP) structured field
- The Image Size parameter in the Image Input
  Descriptor (IID) structured field
- The Fill Rectangle Size parameter in the Image Cell
  Position (ICP) structured field

The image block or image cell might be contained in an
overlay, a page segment, or a MO:DCA document. It
might also be embedded in a data set containing line
data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content
Architecture (IOCA), PSF might have converted your
IOCA image to an IM1 image. In this case, the IOCA
image size is specified in the IDD structured field. This
value is less than the minimum allowed.

System action: If the image is in a page, the printer
you were using might try to print the page in error. The
entire page might not be printed. If the page in error
contains any positioning errors, then print-error markers
might be included on the printed page. PSF continues
the processing of the current data set with the page
following the page in error, unless the printer reported
another error that required a more severe PSF recovery
action. If the image is in a resource, PSF stops
processing the data set that uses the resource in error.

User response: If you created the structured fields for
the resource or print data set containing the image,
correct the error in the referenced structured field and
resubmit the print request. Refer to *Mixed Object
Document Content Architecture Reference* for more
information about the structured field. If the structured
field has no error, the error might be a PSF or printer
logic error. If you used a program to create the
structured fields for the resource or print data set
containing the image, contact your system programmer.

System programmer response: If an IBM licensed
program was used to create the structured fields for the
print data set or the resource with the error, verify that
the input to that program was valid. If the input was
valid, refer to *PSF for z/OS: Diagnosis* for assistance in
determining the source of the problem.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page or
the message data set in the PSF startup procedure.
Inform your system programmer.

**APS774I   DATA IN AN INPUT RECORD OR
             RESOURCE IS NOT VALID: THE IMAGE
             VERTICAL PEL COUNT VALUE IS
             GREATER THAN THE MAXIMUM
             ALLOWED IN AN ICP OR IID
             STRUCTURED FIELD.**

Explanation: The size of an image cell or image block
in the Y-dimension is greater than the maximum
allowed. The size might be specified in the Y-dimension
subparameter of these:

- The Image Cell Size parameter in the Image Cell
  Position (ICP) structured field
- The Image Size parameter in the Image Input
  Descriptor (IID) structured field

The image block or image cell might be contained in an
overlay, a page segment, or a MO:DCA document. It
might also be embedded in a data set containing line
data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content
Architecture (IOCA), PSF might have converted your
IOCA image to an IM1 image. In this case, the IDD
structured field contains an image Y-dimension that is
larger than the maximum allowed.

System action: If the image is in a page, the printer
you were using might try to print the page in error. The
entire page might not be printed. If the page in error
contains any positioning errors, then print-error markers
might be included on the printed page. PSF continues
the processing of the current data set with the page
following the page in error, unless the printer reported
another error that required a more severe PSF recovery
action. If the image is in a resource, PSF stops
processing the data set that uses the resource in error.

User response: If you created the structured fields for
the resource or print data set containing the image,
correct the error in the referenced structured field and
resubmit the print request. Refer to *Mixed Object
Document Content Architecture Reference* for more
information about the structured field. If the structured
field has no error, the error might be a PSF or printer
logic error. If you used a program to create the
structured fields for the resource or print data set
containing the image, contact your system programmer.

System programmer response: If an IBM licensed
program was used to create the structured fields for the
print data set or the resource with the error, verify that
the input to that program was valid. If the input was
valid, refer to *PSF for z/OS: Diagnosis* for assistance in
determining the source of the problem.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page or
the message data set in the PSF startup procedure.
Inform your system programmer.

**APS775I   DATA IN A FORMDEF RESOURCE IS
             INCOMPATIBLE WITH THE PRINT
             REQUEST: THE OUTPUT CONTAINS
             TOO MANY OR TOO FEW SHEETS TO
             PERFORM THE FINISHING OPERATION
             SPECIFIED IN THE MEDIUM FINISHING
             CONTROL STRUCTURED FIELD.**

Explanation: A finishing operation was requested for a
collection of sheets, but the number of sheets was too
large or too small for the operation.

Finishing Operation triplets are specified in the Medium
Finishing Control (MFC) structured field. The MFC is
specified in the Document Environment Group of the
form definition or in a Medium Map.

System action: Reporting of this exception can be
controlled by the Finishing Fidelity triplet in the
Presentation Fidelity Control (PFC) command. The PFC
command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation
rule to STOP (X'01'), PSF stops processing the data set
that was being processed at the time of the error and
marks the data set. PSF releases the current data set
back to JES and requests that it be held by the system
unless PRTERROR=QUIT was specified on the
OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation
rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity
  triplet and if the REPORT field is set to REPORT
  (X'01'), the printer reports this exception. PSF
  continues processing the current data set with the
  page following the page in error, unless the printer
  reported another error that required a more severe
  PSF recovery action. The finishing operation is not
  applied or is applied incompletely. If the page in error
  contains any positioning errors, then print-error
  markers might be included on the printed page.
- If the printer supports the PFC Finishing Fidelity
  triplet and the REPORT field is set to DO NOT
  REPORT (X'02'), the printer does not report this error
  to PSF but takes its continuation action and
  continues processing the page.
- If the printer does not support the PFC Finishing
  Fidelity triplet and the REPORT field is set to DO
  NOT REPORT (X'02'), the printer reports this
  exception but PSF does not issue the error message.
  The printer takes its continuation action for the page
  and PSF continues processing the data set with the
  page following the page in error, unless the printer
  reported another error that required a more severe
  PSF recovery action. The finishing operation is not
  applied or is applied incompletely. If the page in error
  contains any positioning errors, then print-error
  markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If errors caused message pages to be added to the output or caused pages to be skipped, fix those errors so the correct number of pages is printed.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS776I   THE POST PROCESSOR HAS DETECTED A CONDITION THAT CAUSES PAGES TO BE DISCARDED.

Explanation: Paper in the post processor was discarded. The printer detected and reported an asynchronous intervention-required error with an action code of X'0A' (sense byte 2). For more information about this error, refer to the printer publications for the printer than reported this error.

System action: PSF resends pages to the printer starting from the jam recovery page counter. Pages might be duplicated during recovery. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper from the printer and post processor. PSF assumes that pages between the jam recovery page counter and the stacked page counter are not damaged and do not need to be reprinted. If any pages between these two page counters do need to be reprinted, use the JES BACKSPACE command.

Problem determination: Items 1, 8, 18.

APS777I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE INLINE DIRECTION COMPONENT OF THE ORIENTATION PARAMETER IN AN IOC STRUCTURED FIELD IS NOT VALID.

Explanation: The Inline Direction Component of the Orientation parameter in an Input Output Control (IOC) structured field is not valid. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content Architecture (IOCA), PSF might have converted your IOCA image to an IM1 image. In this case, the incorrect value is in the OBP structured field.

System action: If the image is in a page, the printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

APS778I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE BASELINE DIRECTION COMPONENT OF THE ORIENTATION PARAMETER IN AN IOC STRUCTURED FIELD IS NOT VALID.**

Explanation: The Baseline Direction Component of the Orientation parameter in an Input Output Control (IOC) structured field is not valid. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

If the printer does not support Image Object Content Architecture (IOCA), PSF might have converted your IOCA image to an IM1 image. In this case, the incorrect value is in the OBP structured field.

System action: If the image is in a page, the printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS779I **THE STARTING PEL COORDINATES SPECIFIED FOR THE IMAGE WOULD PLACE ALL OR PART OF THE IMAGE TO THE RIGHT OF THE LOGICAL PAGE.**

Explanation: Either the X-Position parameter in the Image Cell Position (ICP) structured field or the Horizontal Coordinate parameter in the Image Output Control (IOC) structured field is within the valid range, but is greater than the Horizontal Page Size parameter in the Page Descriptor (PGD) structured field. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field. The PGD structured field is in the MO:DCA data, the overlay, or a page definition.

For a Begin Image Block (BIM) structured field in a line-data page, the offset is relative to the current print position before the image. For a BIM structured field in the MO:DCA data, the offset is relative to the page origin. For a BIM structured field included in a page segment, the offset is relative to the page segment origin.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing MO:DCA data or an overlay, and you created the structured fields in the object containing the error, change the page size in the print data set or an overlay. If you were printing MO:DCA data or an overlay, and you used a program to create the structured fields in the object containing the error, change your input to that program to increase the page size in the print data set or the overlay. If you were printing a data set containing line data, change the page size in the page definition.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS780I THE STARTING PEL COORDINATES SPECIFIED FOR THE IMAGE WOULD PLACE ALL OR PART OF THE IMAGE BEYOND THE BOTTOM OF THE LOGICAL PAGE.

Explanation: Either the Y-Position parameter in an Image Cell Position (ICP) structured field or the Vertical Coordinate parameter in an Image Output Control (IOC) structured field is within the valid range, but is greater than the Vertical Page Size parameter in the Page Descriptor (PGD) structured field. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field. The PGD structured field is in MO:DCA data, an overlay, or a page definition.

For a Begin Image Block (BIM) structured field in a line-data page, the offset is relative to the current print position before the image. For a BIM structured field in the MO:DCA data, the offset is relative to the page origin. For a BIM structured field included in a page segment, the offset is relative to the page segment origin.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing MO:DCA data or an overlay, and you created the structured fields in the object containing the error, change the page size in the print data set or the overlay. If you were printing MO:DCA data or an overlay, and you used a program to create the structured fields in the object containing the error, change your input to that program to increase the page size in the print data set or an overlay. If you were printing a data set containing line data, change the page size in the page definition.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS781I THE CANCEL BUTTON ON THE PRINTER CONTROL PANEL WAS PRESSED WHILE THE PRINTER WAS PROCESSING A DATA SET.

Explanation: The printer detected and reported that the cancel button on the printer control panel was pressed while the printer was processing a data set.

System action: PSF causes the printer to discard the printer's buffered data. Then, if the stacked page counter is greater than zero, PSF cancels the data set at the stacked page counter plus 1. Otherwise, PSF cancels the data set at the stacked page counter.

User response: If desired, resubmit the print request that was canceled. If the error condition persists, consult the operator to see why the cancel button is being pressed.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS782I THE PAGE BEING PROCESSED WAS TOO COMPLEX TO PRINT. ONE OR MORE OBJECTS MAY HAVE TO BE REMOVED FROM THE PAGE IN ORDER TO PRINT IT.

Explanation: This error is a result of either too many items (for example, images) being placed on a page, or too many overstrikes being requested. The printer detected and reported an I/O error with an action code of X'09' (sense byte 2). This message is accompanied by a message that presents the printer sense bytes.

System action: When the print error is detected, the printer attempts to print at least part of the page containing the error. PSF causes the printer to discard the printer's buffered data. PSF then stops processing the data set at the stacked page counter plus 1.

User response: Remove one or more resources from the page, and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS783I THE MAGNET SETTINGS OF THE CASSETTE WERE CHANGED AFTER THE PAGE WAS PROCESSED BUT BEFORE THE PAGE WAS PRINTED.

Explanation: The magnet settings of the cassette were not the same at the time the page was printed as they were when the page was formatted on the printer. The printer detected and reported an asynchronous

error with an action code of X'23' (sense byte 2).

System action: PSF causes the printer to discard the printer's buffered data. PSF resends pages to the printer, starting from the stacked page counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. PSF also prints this message at the end of the data set to indicate that this message was printed within the data set.

User response: Check your output for duplicate pages. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 8, 18.

APS784I   A SERIALIZER PARITY ERROR OCCURRED DURING THE PRINTING OF THIS DATA SET.

Explanation: The serializer card in the printer generated an incorrect parity. The printer detected and reported an asynchronous error with an action code of X'23' (sense byte 2). This is a temporary hardware error.

System action: PSF causes the printer to discard the printer's buffered data. PSF resends pages to the printer, starting from the stacked page counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. PSF also prints this message at the end of the data set to indicate that this message was printed within the data set.

User response: Check your output for duplicate pages. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 8, 18.

APS785I   AN IMAGE EXTENDS OFF THE RIGHT OF THE LOGICAL PAGE.

Explanation: Either the X-Position parameter in an Image Cell Position (ICP) structured field or a Horizontal Coordinate parameter in an Image Output Control (IOC) structured field is outside the valid range. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be

embedded in a data set containing line data, using a Begin Image (BIM) structured field. If the image is part of a page segment, an overlay, or MO:DCA data, the image block origin is described as a displacement from the origin of the page segment, overlay, or MO:DCA data page. If the image is part of a line-data page, the image block origin is described as a displacement from the current Line Descriptor (LND) structured field. The LND structured field is contained in the page definition.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS786I   AN IMAGE EXTENDS OFF THE BOTTOM OF THE LOGICAL PAGE.

Explanation: Either the Y-Position parameter in an Image Cell Position (ICP) structured field or a Vertical Coordinate parameter in an Image Output Control (IOC) structured field is outside the valid range. The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field. If the image is part of a page segment, an overlay, or a MO:DCA data page, the image block origin is described as a displacement from the origin of the page segment, overlay, or MO:DCA data page. If the image is part of a line-data page, the image block origin is described as a displacement from the current Line Descriptor (LND)

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structured field. The LND structured field is contained in the page definition.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS787I **AN IMAGE GENERATOR ERROR OCCURRED DURING THE PRINTING OF THIS DATA SET.**

Explanation: The printer detected and reported an asynchronous error with an action code of X'23' (sense byte 2). This is a temporary hardware error. For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF causes the printer to discard the printer's buffered data. PSF resends pages to the printer, starting from the stacked page counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. PSF also prints this message at the end of the data set to indicate that this message was printed within the data set.

User response: Check your output for duplicate pages. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 8, 18.

APS788I **ONE OR MORE CHARACTERS, RULES, IMAGES, OR IMAGE CELLS WERE SPECIFIED TO PRINT OUTSIDE OF THE VALID PRINTABLE AREA.**

Explanation: An attempt was made to print outside the valid printable area. This area is the intersection (common space) of the physical page with the logical page or with an overlay. Characters, rules, or image cells fall at least partially outside of the valid printable area. Note that a data-stream image might consist of a number of image cells, and each cell is sent to the printer as one image.

System action: Characters and images that were not defined completely within the valid printable area are not printed. Rules are printed up to the area boundary. The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: Ensure that the correct form was loaded in the printer. If it was, and if your printed output would be acceptable without the print-error markers, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATACK keyword on the OUTPUT JCL statement.

If you want to correct the source of the problem, you could change the size of the logical page. If you want the logical page size to remain the same and if you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the print positioning values in the text-control sequence in the Presentation Text Data (PTX) structured field for positioning outside of the page.

If you were printing an image, coordinate the image dimensions with the logical page size.

If you were printing a data set containing line data, and you were using a page definition that you created, check the print-positioning values in the Line Descriptor (LND) structured field.

If you were printing a data set containing line data with embedded structured fields, check the PTX structured field for positioning outside of the page.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the

operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS790I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE BEGIN/END SUPPRESSION TEXT CONTROL PARAMETER VALUE IS OUTSIDE THE VALID RANGE.**

Explanation: The suppression ID for the Begin Suppression (BSU) and End Suppression (ESU) text control is outside of the valid range. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS791I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE REPEAT STRING TEXT CONTROL LENGTH VALUE IN A PTX STRUCTURED FIELD IS NOT VALID.**

Explanation: The Length parameter in a Repeat String (RPS) text control was nonzero, but the Text String parameter had zero length. The RPS text control is in a Presentation Text Data (PTX) structured field. The Presentation Text Data (PTX) structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document or an overlay, and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a MO:DCA document or an overlay, and you used a program to create its structured fields, contact your system programmer. If you were printing a MO:DCA document containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS792I DATA IN A CODE PAGE RESOURCE IS NOT VALID: DOUBLE-BYTE CHARACTER FLAGS ARE NOT VALID.

Explanation: In the Code Page Index (CPI) or Code Page Control (CPC) structured fields, an incorrect flag combination was specified for a character of a double-byte font. The CPC and CPI structured fields are in the code page.

System action: PSF stops processing and printing the data set that uses the font containing the error.

User response: If you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the code page, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS793I THE PAGE DIMENSIONS SPECIFIED WERE LARGER THAN THE MAXIMUM ALLOWABLE DIMENSIONS.

Explanation: The meaning of this message depends on the printer. For all printers except the 3800 printers, the sum of the Y-Origin parameter in the Page Position (PGP) structured field and the Vertical Page Size parameter in the Page Descriptor (PGD) structured field should not exceed the addressability limit of the printer. Nor should the sum of the X-Origin parameter in the PGP structured field and the Horizontal Page Size parameter in the PGD structured field exceed the addressability limit of the printer. The PGD structured field is in the MO:DCA data, an overlay, or a page definition. The PGP structured field is in the form definition.

For the 3800 printers, the sum of the Y-Origin parameter in the Page Position (PGP) structured field and the Vertical Page Size parameter in the Page Descriptor (PGD) structured field should not exceed the maximum Y values of the following paper sizes. Nor should the sum of the X-Origin parameter in the PGP structured field and the Horizontal Page Size parameter in the

PGD structured field exceed the maximum X values of the following paper sizes. The PGD structured field is in the MO:DCA data, an overlay, or a page definition. The PGP structured field is in the form definition.

Common paper sizes

X-dimension	3330
Y-dimension	2640

ISO paper sizes

X-dimension	3330
Y-dimension	2880

Additional ISO paper sizes

X-dimension	3330
Y-dimension	3000

These values represent the maximum common and maximum ISO paper sizes For more information about the maximum X- and Y-dimensions of other paper sizes, refer to *IBM 3800 Printing Subsystem Models 3, 6, and 8 Operator's Guide*.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: Ensure that the correct form was loaded in the printer. If it was, and you were printing MO:DCA data or an overlay and you created the structured fields in the object containing the error, change the page size in the print data set or an overlay. You could also change the page origin in the form definition.

If you were printing MO:DCA data or an overlay, and you used a program to create the structured fields in the object containing the error, change your input to that program to reduce the page size in the print data set or overlay. You could also change the page origin in the form definition.

If you were printing a data set containing line data, change the page position in the page definition, or change the page origin in the form definition.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS794I THE PAGE OR PAPER SIZE IS GREATER THAN THE PRINTER ACCUMULATOR STORAGE CAPACITY.

Explanation: The physical page requires the accumulator. The page size of the form loaded in the printer is too large for the accumulator.

System action: PSF causes the printer to discard the printer's buffered data and to delete all overlays, page segments, and fonts. On the first occurrence of this error, the message is printed on a separate sheet in the data set to mark the position before recovery starts. PSF recovers by resending pages to the printer, starting from the last known committed page counter plus 1. On the second occurrence of this error, the message is printed at the end of the message data set, and PSF stops processing the data set at the committed page counter plus 1.

User response: Request a smaller page size, and ensure that the print request is routed to the appropriate output class. Otherwise, run the print request on a printer with a different size accumulator, if available. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Problem determination: Items 1, 2, 17, 27.

APS796I A PAPER JAM OR A POST PROCESSOR RESYNCHRONIZATION OCCURRED DURING THE TRANSMISSION OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The paper in the printer was jammed. The printer detected and reported an asynchronous intervention-required error with an action code of X'08' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF resends pages to the printer starting from the jam recovery page counter plus 1. PSF might print message APS711I on a separate sheet in the data set to mark the position where the recovery from this error was started. Pages might be duplicated during the recovery. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might

want to resubmit the print request If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper jam in the printer. PSF assumes that pages between the jam recovery page counter and the stacked page counter are not damaged by the paper jam and do not need to be reprinted. If any pages between these two page counters do need to be reprinted, use the JES BACKSPACE command.

Problem determination: Items 1, 8, 18.

APS797I THE PAGE BEING PROCESSED WAS TOO COMPLEX TO BE PRINTED AND WAS SKIPPED. ONE OR MORE OBJECTS MAY HAVE TO BE REMOVED FROM THE PAGE IN ORDER TO PRINT IT.

Explanation: An equipment check at print time indicated that either a strip-buffer overrun or an insufficient accumulator storage condition (includes the condition of no accumulator installed) occurred. The page at the committed page counter was too complex to print; therefore, the page was skipped. The printer detected and reported an asynchronous error with an action code of X'09' (sense-byte 2).

System action: PSF resends pages to the printer starting from the committed page counter plus 2 in order to skip the page that was too complex to print. PSF prints this message on a separate sheet in the data set to mark the position at which the recovery from this error was started. PSF also prints this message at the end of the data set to indicate that this message was printed within the data set. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: Remove some of the resources on the page (for example, overlays, images, fonts, or page segments), or remove some of the data from the page, and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS798I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE LENGTH PARAMETER VALUE OF A REPEAT STRING TEXT CONTROL IN A PTX STRUCTURED FIELD IS NOT VALID

Explanation: The Length parameter in a Repeat String (RPS) text control is not valid. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS799I   THE DEMANDS FOR PRINTER {WCS | RPS} STORAGE ARE ADVERSELY AFFECTING PRINTER THROUGHPUT. THE PRINTED OUTPUT SHOULD BE ACCEPTABLE.

Explanation: Not enough writable-control storage (WCS) or raster-pattern storage (RPS) was available to complete the page. This message was issued to indicate that multiple resources in the printer have used all of the WCS or RPS storage, and the data set was printed with the accumulator feature. The complexity of

the page or resources from previous pages or data sets might be causing the printer to run slower than usual.

System action: The printer prints the page containing the error, using the accumulator. If the page contains any position errors, the print-error markers are printed on the page containing the error. PSF attempts to free some of the printer storage by deleting (1) all overlays in the printer, (2) all page segments in the printer, or (3) all resources in the printer. The page that caused this error to be reported has already been printed; so PSF continues processing the current data set with the page after the page containing the error.

If repositioning is not supported in the current environment, the channel program is re-driven on the next channel command.

User response: If the printed output is not acceptable, make the page less complicated by deleting resources (for example overlays, page segments, and fonts), or print the data set on a printer with more of the type of storage that was exceeded. If greater throughput is desired, you could remove some of the resources used for the data set in order to reduce the page complexity. If the problem persists, notify your system programmer.

System programmer response: If the printer throughput is unacceptable, consider acquiring additional printer storage, if possible.

Operator Response: If the problem persists, notify your system programmer of this error.

Problem determination: Items 1, 2, 17, 27.

APS800I   AN ERROR OCCURRED WHILE PSF WAS PROCESSING A SECURE OVERLAY.

Explanation: The printer detected and reported a data stream error in a secure overlay.

System action: The page containing the secure overlay cannot be printed. Processing of the data set stops. PSF releases the current data set back to JES and requests that it be held by the system.

User response: See the specific error conditions described in the accompanying messages to determine an appropriate response.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 12, 18.

**APS801I   DATA IN AN INPUT RECORD OR
           RESOURCE IS NOT VALID:
           DOUBLE-BYTE FONT TEXT DATA
           LENGTH MUST BE A MULTIPLE OF 2.**

Explanation: While processing text data that uses a double-byte font, the printer detected that the Length of the Text parameter in either a Repeat String (RPS) text control or a Transparent Data (TRN) text control was not a multiple of two. Either an even number of bytes of source data was not specified on the text control, or a double-byte font was selected when the user intended for the data to be printed with a single-byte font. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you did not intend to use a double-byte font, correct the font specification to name a single-byte font.

If you did intend to use a double-byte font in printing the MO:DCA data, and you created the structured fields for the print data set, overlay, or page segment, correct the RPS or TRN text control. If the RPS or the TRN text control has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the print data set, overlay, or page segment, consult your system programmer.

If you intended to use a double-byte font in printing a data set containing line data with embedded structured fields, correct the RPS or TRN text control. If the RPS or TRN text control has no errors, the error might be a PSF or printer logic error.

If you intended to print a data set containing line data using a double-byte font, the error might be a PSF or printer logic error.

Refer to *Mixed Object Document Content Architecture Reference* for the acceptable format of RPS and TRN text controls.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

**APS802I   THE PRINTER ENCOUNTERED AN
           ACCUMULATOR READ CHECK.
           PARTIAL OR DUPLICATE PAGES MAY
           BE PRINTED.**

Explanation: A read-check error was sensed by the accumulator feature circuits. The printer detected and reported an equipment check error with an action code of X'0F' (sense-byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF causes the printer to discard the printer's buffered data and to delete all the overlays in the printer. PSF resends pages to the printer, starting from the committed page counter plus 1. PSF prints this message on a separate sheet in the data set to mark the position where the recovery from this error was started. Pages might be duplicated during the recovery. If repositioning is not supported in the current environment PSF stops processing the data set.

User response: Check the printed output for duplicate pages. If the problem persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

**APS803I   AN UNEXPECTED I/O ECB
           COMPLETION CODE (*completion code*)
           WAS DETECTED.**

Explanation: The PSF I/O Error Manager subcomponent detected the Event Control Block (ECB) that was reported in this message. Valid ECB completion codes are X'41', X'44', X'48', and X'7E'.

System action: PSF ends with a dump. JES queues the print request again.

User response: Inform your system programmer that this error occurred.

System programmer response: To interpret the ECB completion code, refer to *z/OS DFSMS Using Data Sets*. If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 9, 17.

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APS804I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE LENGTH PARAMETER OF A REPEAT STRING TEXT CONTROL IN A PTX STRUCTURED FIELD MUST BE A MULTIPLE OF 2 FOR A DOUBLE-BYTE FONT.

Explanation: While processing text data that uses a double-byte font, the printer detected that the target length of the data to be printed was not a multiple of two. Either the Length parameter in a Repeat String (RPS) text control is not valid, or a double-byte font was selected when a single-byte font was intended to print the data. The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you did not intend to use a double-byte font, correct the font specification to name a single-byte font.

If you intended to print the MO:DCA data with a double-byte font, and you created the structured fields for the print data set, overlay, or page segment, correct the RPS text control. If the RPS text control has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the print data set, overlay, or page segment, consult your system programmer.

If you intended to use a double-byte font to print a data set containing line data with embedded structured fields, correct the RPS text control.

If the RPS text control has no errors, the error might be a PSF or printer logic error. For the valid format of the RPS text control, refer to *Mixed Object Document Content Architecture Reference*.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS805I   DATA IN A FORMDEF RESOURCE IS NOT VALID: THE MAXIMUM HORIZONTAL ADJUSTMENT VALUE SPECIFIED IN THE MMC STRUCTURED FIELD IS GREATER THAN THE MAXIMUM ALLOWED BY THE PRINTER.

Explanation: The horizontal adjustment range specified in the Medium Modification Control (MMC) structured field Modification parameter is not valid. The value is greater than the maximum allowed. The operator can make an adjustment ranging from zero to twice the value of this parameter. If more than one MMC structured field reports an value, the maximum value is specified to the operator. The MMC structured field is contained in the form definition.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the form definition, correct the MMC structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the MMC has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS806I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE COLOR VALUE FIELD IN A X'4E' TRIPLET, SET EXTENDED COLOR CONTROL SEQUENCE OR SET PROCESS COLOR DRAWING ORDER IS NOT VALID OR IS UNSUPPORTED.

Explanation: The color value field in a X'4E' triplet, Set Extended Color control sequence, or Set Process Color drawing order contained an incorrect or unsupported value for this printer. The X'4E' might have occurred on these structured fields:

- A Page Descriptor (PGD).
- An Object Area Descriptor (OBD).

The PGD is contained in an Active Environment Group (AEG) for a page or an overlay, and the OBD is contained in an Object Environment Group (OEG) for a graphics, image, or bar code object, or an object container.

The Set Extended Color control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data.

The Set Process Color drawing order is located in a Graphics Data (GAD) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Color Fidelity triplet the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Contact your operator and ask that your previous print request, which was held, be purged. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

If you submitted the print request to the wrong printer, consult your operator to determine to which printer that data set should be rerouted.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that supports this function. For a JES command to release the data set for printing, refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* .

If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS807I **THERE IS INSUFFICIENT PRINTER WCS STORAGE TO PRINT THE PAGE. ONE OR MORE OBJECTS MAY HAVE TO BE REMOVED FROM THE PAGE IN ORDER TO PRINT IT.**

Explanation: Either the page is too complex for the Writable Control Storage (WCS), or both sides of a duplexed sheet are collectively too complex for the available WCS. This is caused by too much text or too many images or draw rules. This message is accompanied by a message that presents the printer sense bytes.

System action: PSF causes the printer to discard the printer's buffered data. PSF then stops processing the data set at the stacked page counter plus 1.

User response: Simplify the page that was too complex to print. One or more resources might have to be removed from the page in order to print it. Resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS808I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: LESS IMAGE DATA WAS PROVIDED IN THE IRD STRUCTURED FIELD THAN WAS NEEDED FOR THE SIZE OF THE IMAGE SPECIFIED IN THE IID OR ICP STRUCTURED FIELDS.**

Explanation: The amount of raster data sent in one or more Image Raster Data (IRD) structured fields was not sufficient to complete the image. The number of bytes of source image data sent in one or more IRD structured fields should equal the product of the source-pel count and the source-scan count.

If the printer does not support Image Object Content Architecture (IOCA), PSF might have converted your IOCA image to an IM1 image. In this case, the image size is also specified in the IDD structured field.

The values for the source-pel count and source-scan count can be specified in three separate parameter combinations in the Image Input Descriptor (IID) structured field or the Image Cell Position (ICP) structured field:

- The X-dimension and Y-dimension of the Image Size parameter in the IID structured field.
- The Cell Size X-dimension and Cell Size Y-dimension of the Default Image Cell Size parameter in the IID structured field.
- The X-dimension and Y-dimension of the Image Cell Size parameter in the ICP structured field.

The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

System action: If the image is in a page, the printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that

the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS809I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: MORE IMAGE DATA WAS PROVIDED IN THE IRD STRUCTURED FIELD THAN WAS NEEDED FOR THE SIZE OF THE IMAGE SPECIFIED IN THE IID OR ICP STRUCTURED FIELDS.**

Explanation: The amount of raster data sent in one or more Image Raster Data (IRD) structured fields was more than was specified to complete the image. The number of bytes of source image data sent in one or more IRD structured fields should equal the product of the source-pel count and the source scan-count. More raster data was received in the Raster Pattern parameter in one or more IRD structured fields than was specified by this number.

If the printer does not support Image Object Content Architecture (IOCA), PSF might have converted your IOCA image to an IM1 image. In this case, the image size is also specified in the IDD structured field.

The values for the source-pel count and source-scan count can be specified in three separate parameter combinations in the Image Input Descriptor (IID) structured field or the Image Cell Position (ICP) structured field:

- The X-dimension and Y-dimension of the Image Size parameter in the IID structured field
- The Cell Size X-dimension and Cell Size Y-dimension of the Default Image Cell Size parameter in the IID structured field
- The X-dimension and Y-dimension of the Image Cell Size parameter in the ICP structured field

System action: If the image is in a page, the printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues the processing of the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. If the image is in a resource, PSF stops processing the data set that uses the resource in error.

User response: If you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object*

Document Content Architecture Reference for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS810I   **DATA IN A FONT RESOURCE IS NOT VALID: THE PATTERN DATA COUNT PARAMETER IN THE FNC STRUCTURED FIELD MUST BE A MULTIPLE OF 4 FOR A DOUBLE-BYTE FONT**

Explanation: The Pattern Data Count parameter of the Font Control (FNC) structured field is not valid. The FNC structured field is contained in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS811I   **DATA IN A FONT RESOURCE IS NOT VALID: MORE FONT DATA WAS RECEIVED THAN WAS DEFINED IN THE PATTERN DATA COUNT PARAMETER OF THE FNC STRUCTURED FIELD.**

Explanation: The Pattern Data Count parameter in the Font Control (FNC) structured field specified fewer bytes of data than were sent in one or more Font Pattern (FNG) structured fields. The FNC and FNG structured fields are in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS812I   **DATA IN A FONT RESOURCE IS NOT VALID: LESS FONT DATA WAS RECEIVED THAN WAS DEFINED IN THE PATTERN DATA COUNT PARAMETER OF THE FNC STRUCTURED FIELD.**

Explanation: The Pattern Data Count parameter of the Font Control (FNC) structured field specified more bytes of data than were sent in one or more Font Pattern (FNG) structured fields. The FNC and FNG structured fields are in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for

more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS813I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE TEXT CONTROL ESCAPE SEQUENCE MUST BE X'2BD3'.**

Explanation: While processing text, the printer detected an escape character X'2B' that was not immediately followed by X'D3'. The escape sequence is in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The Presentation Text Data (PTX) structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without

embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS814I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE SHADING OR COVERAGE VALUE IN A X'4E' TRIPLET, SET EXTENDED COLOR CONTROL SEQUENCE OR SET PROCESS COLOR DRAWING ORDER IS NOT VALID.**

Explanation: The percent coverage, the percent shading, or both fields in a X'4E' triplet, Set Extended Color control sequence, or Set Process Color drawing order contained an incorrect or unsupported value for this printer.

The X'4E' triplet might have occurred on these structured fields:
- A Page Descriptor (PGD).
- An Object Area Descriptor (OBD).

The PGD is contained in an Active Environment Group (AEG) for a page or an overlay, and the OBD is contained in an Object Environment Group (OEG) for a graphics, image, or bar code object, or an object container.

The Set Extended Color control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data.

The Set Process Color drawing order is located in a Graphics Data (GAD) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or, it might be embedded in a data set containing line data.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error

and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Color Fidelity triplet the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Contact your operator and ask that your previous print request, which was held, be purged. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

If you submitted the print request to the wrong printer, consult your operator to determine to which printer that data set should be rerouted.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that supports this function. For a JES command to release the data set for printing, refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* .

If this message displays on the operator's console, it

indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS815I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMBEDDED TEXT CONTROL LENGTH FIELD VALUE IS OUT OF RANGE.**

Explanation: While processing an embedded text control, the printer detected that the value of a text control length byte was outside the valid range for the specified text control. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you were printing a MO:DCA document, an overlay, or a page segment and you created the structured fields in the object containing the error, correct the text-control sequence in the Presentation Text Data (PTX) structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the MO:DCA document, overlay, or page segment, contact your system programmer. If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS816I   AN INCORRECT DATA TRANSFER COUNT OR AN INCORRECT PRINTER COMMAND LENGTH WAS DETECTED WHILE TRANSMITTING THIS DATA SET TO THE PRINTER. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: While processing a printer command, the printer detected a printer command with a length that was outside the valid range for the specific printer command (except the 3800 Models 3, 6, and 8).

While processing a 3800 printer command, the printer detected that the channel data transfer count was not valid.

The formatted printer sense byte message that accompanies this message identifies the command containing the error.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: Inform your system programmer that this error occurred.

System programmer response: Verify the printer command length or data count, and examine the 24 bytes of sense data in the formatted printer sense byte message. For more information about printer sense bytes and this error, refer to the printer publications for the printer that reported this error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS817A   AN INTERFACE CONTROL CHECK WAS RECEIVED. SOFTWARE RECOVERY IS IN PROGRESS. IF THE DEVICE *prtnnnn* INDICATES A SUCCESSFUL INITIAL MICROCODE LOAD (IML) THEN MAKE THE DEVICE READY.

Explanation: This message indicates that an interface-control check has occurred. This condition occurred because the channel detected errors on the interface between the control unit and the channel. A hardware problem might exist. Because of these errors, the channel performs a system reset, a selective reset, or an interface disconnect sequence. A system reset or

selective reset causes the printer to restart the initial microcode load (IML) facility that is built into that device. When an IML is completed successfully, the printer presents a unit check to PSF with an action code of X'0D' (sense byte 2). The printer display panel informs the operator of the successful IML and the condition of the printer. To determine what is actually displayed on the printer's display panel for a successful IML, refer to the printer publications for the printer that reported this error. An interface disconnect sequence is transparent to PSF.

System action: PSF attempts to resynchronize with the printer by performing I/O until the interface control check is either cleared or determined to be permanent. PSF then performs its error recovery.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If necessary, press RESET, READY, or START on the printer. For more information about IMLs and the appropriate response, refer to the reference publication or the operator's guide for the printer that reported the error. If the error persists or the recovery was unsuccessful, stop PSF and consult your system programmer.

Problem determination: Items 1, 8, 18.

APS818I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE FONT IDENTIFIER SPECIFIED IN A SET CODED FONT LOCAL TEXT CONTROL WAS NOT MAPPED IN THE PRINTER.

Explanation: The Coded Font Local identifier in a Set Coded Font Local (SCFL) text control contains an incorrect value. The value is not valid, for one of these reasons:

- It is outside the valid range.
- It was not specified in the Map Coded Font (MCF) structured field.
- An attempt was made to use a printer-resident font in an orientation that is not available.

The SCFL text control is in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The Presentation Text Data (PTX) structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data. The MCF structured field might be in MO:DCA data, an overlay, or a page definition.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in

error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If the error was caused by the unavailability of a printer-resident font orientation, select a different font if possible. If you cannot use a different font, consult your system programmer.

If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the SCFL identifier with the MCF structured field. If the structured fields have no errors, the error might be a PSF or printer logic error, or the result of an attempt to use a printer-resident font in an orientation that is not available. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing a data set containing line data, and you were using a page definition that you created, ensure that the MCF structured field contains all the fonts you want to use in this data set. If the MCF structured field has no errors, the error might be a PSF or printer logic error, or the result of an attempt to use a printer-resident font in an orientation that is not available. If you were printing a data set containing line data, and you were using a page definition that you created by use of a program, consult your system programmer.

If you were printing a data set containing line data with embedded structured fields, check the SCFL identifier with the MCF structured field. If the structured field has no errors, the error could be a PSF logic error, a printer logic error, or the result of an attempt to use a printer-resident font in an orientation that is not available.

For more information on the correct format of the referenced structured fields, refer to *Mixed Object Document Content Architecture Reference*.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves a font that is marked for use as a resident font, and if an orientation of the font is required that is not resident in the printer, use the APSRMARK utility to mark the font PRIVATE, so that the system version is sent to the printer. Alternatively, you can supply a new font that is equivalent to the requested font but not marked for use as a resident font, and provide the name of the new font to the print-job submitter whose application requested the font orientation that was not available in the printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or

the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS819I   DOUBLE-BYTE FONT CHARACTER SETS ARE NOT SUPPORTED ON PRINTER *printer number*. **ROUTE THE JOB TO A PRINTER THAT DOES SUPPORT DOUBLE-BYTE FONTS.**

Explanation: The printer named does not support double-byte fonts.

System action: PSF stops processing the data set that was being processed at the time of the error and marks it unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: Change the output class for the next submission. Consult the system operator to have the print request released to a printer that can process double-byte fonts.

System programmer response: No response is necessary.

Operator Response: Release the print request as requested. If you are running under JES, use the JES data-set release commands to release the data set to a printer that allows double-byte fonts. For a JES command to release the data set for printing, refer to the publication containing JES commands for your operating system.

Problem determination: Items 1, 2, 17, 27.

APS820I   A PARAMETER VALUE IN A FORMDEF RESOURCE IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN UNSUPPORTED FINISHING OPERATION COUNT VALUE.

Explanation: The finishing operation count field (byte 6) in a Finishing Operation Triplet (X'85') contains an unsupported value.

Finishing Operation Triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops proccing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be

held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed

program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS821I **INSUFFICIENT [WCS | FONT | CPS | RPS | PST | PBS | INTERNAL] PRINTER STORAGE IS AVAILABLE TO CONTINUE PROCESSING THE DATA SET.**

Explanation: The printer detected and reported an out-of-storage error with an action code of X'0C' (sense byte 2). A request for raster-pattern storage (RPS), writable-control storage (WCS), compressed-pattern storage (CPS), pattern storage (PST), or page-buffer storage (PBS) exceeded the available storage resources of the printer. If the word FONT is included in the message, the printer has insufficient RPS storage or WCS (3820 only) storage to load the font. If the word INTERNAL is included in the message, the printer does not differentiate between different subpools of storage and therefore merely indicates that its storage has been exceeded. This message is accompanied by a message that presents the printer sense bytes.

System action: PSF issues this message only after it has attempted to resolve the out-of-storage error condition by deleting all resources in the printer that the current page at the received page counter does not require, and then resending the page. If PSF receives a second action code X'0C' error for the same page at the received page counter, PSF issues this message and stops processing the data set. If repositioning is not supported in the current environment, PSF stops processing the data set when it receives the first resource-constraint error.

User response: If data stream errors stopped the processing of the page just before the page for which APS821I was issued, correct the data stream errors first and resubmit the print request. The condition that caused message APS821I to be issued might be resolved once the other errors have been corrected. If the error is not due to data stream errors, this error occurred either because a page or a resource is too complex, or because the combination of two sides of a duplexed sheet is too complex. Make the page or resource less complex by deleting resources (for example, text, images, page segments, overlays, or fonts). Resubmit the print request.

System programmer response: If the error involves

separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS822I   **A PRINTER UNIT CHECK AFTER AN INITIAL MICROCODE LOAD HAS OCCURRED. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.**

Explanation: The printer presented a unit check with an action code of X'0D' (sense byte 2) to indicate that one of these had occurred:

- The printer was IMLed in a normal manner.
- The printer was switched from an Offline state to an Online state.
- The printer IMLed because of a printer-detected error.
- The channel issued a System Reset (this applies only to channel-attached printers).
- The channel issued a Selective Reset (this applies only to channel-attached printers).

This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: Pages in the printer's page buffer and all resources in the printer are lost. The printer resets its counters to zero. PSF resends pages to the printer, starting from the last known committed page counter or jam recovery page counter. PSF prints a message on a separate sheet in the data set to mark the position at which the recovery from this error was started. PSF also prints the same message at the end of the data set to indicate that the message was printed within the data set. Pages might be duplicated during the recovery. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request If the error persists, consult your system programmer.

System programmer response: If the printer performs an excessive number of automatic IMLs, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If necessary, press RESET and READY on the printer.

Problem determination: Items 1, 8, 18.

APS823I   **AN ERROR OCCURRED WHILE PROCESSING AN ELECTRONIC OVERLAY OR A BASE PAGE IN THE PRINTER ACCUMULATOR.**

Explanation: The printer detected and reported a data check with an action code of X'10' (sense byte 2). This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: PSF causes the printer to discard the printer's buffered data and to delete all overlays, page segments, and fonts. On the first occurrence of this error, the message is printed on a separate sheet in the data set to mark the position before recovery starts. PSF recovers by resending pages to the printer, starting from the last known committed page counter plus 1. On the second occurrence of this error, PSF prints the message at the end of the message data set, and stops processing the data set at the committed page counter plus 1.

User response: If the output is not acceptable, resubmit the print request. If the error persists, the overlay or page might need to be modified.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS824I   **THE MAXIMUM NUMBER OF FONTS IS ALREADY LOADED.**

Explanation: While PSF was loading fonts, the maximum number of fonts allowed on a single sheet was reached.

System action: PSF recovers from the error by deleting any fonts that are not needed for the current page and then resending pages from the received page counter plus 1. If the error persists, PSF stops processing and printing the data set that contains this error. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: If data stream errors stopped the processing of the page just before the page for which APS824I was issued, correct the data stream errors first and resubmit the print request. The condition that caused message APS824I to be issued might be resolved after the other errors have been corrected. If the error is not due to data stream errors, remove some of the fonts called for by the sheet or resource, and resubmit the print request.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS825I **A CHARACTER-RESIDUE CHECK WAS DETECTED DURING THE LOADING OF A DOUBLE-BYTE FONT. PLEASE INFORM YOUR SYSTEM PROGRAMMER.**

Explanation: While printing with a double-byte font, the printer detected a character-residue check for the double-byte font requested. This error occurred either because the font raster data for a double-byte font was not valid, or because the printer malfunctioned while retrieving the font from compressed-pattern (CPS) storage. Sense information can be obtained from the record in SYS1.LOGREC. For an explanation of the sense bytes, refer to the printer publications for the printer that reported this error.

System action: PSF stops processing the data set at the committed page counter plus 1.

User response: Inform your system programmer that this error occurred.

System programmer response: If you suspect that the problem is caused by incorrect double-byte font data, check to see if the compression algorithm was correctly applied to the raster pattern data from one or more Font Pattern (FNG) structured fields. The FNG structured fields are in the font character set. If you suspect the problem is caused by a malfunction of the printer, you might want to suspend the processing of all print data sets that use double-byte fonts. If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If the error occurred because the printer malfunctioned while retrieving the font from CPS storage, suspend processing for all data sets that use double-byte fonts, and notify your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS826I **DATA IN A FONT RESOURCE IS NOT VALID: THE UNIFORM INLINE OFFSET PARAMETER VALUE OF A FNC STRUCTURED FIELD MUST BE 0 FOR A DOUBLE-BYTE CODED FONT.**

Explanation: While PSF was attempting to load a font, the printer detected an error in the Font Control (FNC) structured field. The Uniform Inline Offset parameter reports an incorrect value for what is identified as a double-byte font. The FNC structured field is contained in the font character set.

System action: PSF stops processing and printing the data set that uses the font containing the error.

User response: If you created the structured fields for the font, correct the error and resubmit the print request.

Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS827I **DATA IN A FONT RESOURCE IS NOT VALID: THE UNIFORM INLINE OFFSET PARAMETER VALUE OF A FNC STRUCTURED FIELD IS NOT VALID.**

Explanation: The Uniform Inline Offset parameter in the Font Control (FNC) structured field is outside the valid range for a single-byte font. The FNC structured field is contained in the font character set.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS828I   THE HORIZONTAL ADJUSTMENT VALUE FOR THE RASTER OVERLAY IS GREATER THAN THE HORIZONTAL ADJUSTMENT VALUE FOR THE PAGE IT IS INCLUDED ON.

Explanation: When a raster overlay is received by the printer, the active horizontal adjustment value is used to format the overlay for storage. If the operator adjusts a page to the left, and the page includes the stored overlay, the horizontal adjustment value associated with the overlay exceeds that for the page.

System action: PSF causes the printer to discard the printer's buffered data and to delete all overlays, page segments, and fonts. On the first occurrence of this error, the message is printed on a separate sheet in the data set to mark the position before recovery starts. PSF recovers by resending pages to the printer, starting from the last known committed page counter plus 1. On the second occurrence of this error, PSF prints the message at the end of the message data set and stops processing the data set at the committed page counter plus 1. If the error persists, ask your system operator not to attempt horizontal adjustment for this job.

System programmer response: No response is necessary.

Operator Response: Pages that include a raster overlay should not be adjusted to the left by the operator.

Problem determination: Items 1, 2, 17, 27.

APS829I   A PAPER JAM HAS OCCURRED WHILE ACCUMULATING SHEETS FOR A FINISHING OPERATION. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: Paper in the post processor was discarded. The printer detected and reported an asynchronous intervention-required error with an action code of X'0A' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF resends pages to the printer starting from the jam recovery page counter. Pages might be duplicated during recovery. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper

from the printer and post processor. PSF assumes that pages between the jam recovery page counter and the stacked page counter are not damaged and do not need to be reprinted. If any pages between these two page counters do need to be reprinted, use the Job Entry Subsystem (JES) BACKSPACE command.

Problem determination: Items 1, 8, 18.

APS830I   THE ERROR SENSE BYTES 0–7 = *error sense bytes 0–7*, **OVERLAY IDENTIFIER =** *overlay identifier*, **SEGMENT IDENTIFIER =** *segment identifier*, **COMMAND =** *command*, **OBJECT IDENTIFIER =** *object identifier*, **ELEMENT IDENTIFIER =** *element identifier*, **SENSE BYTES 18–23 =** *error sense bytes 18–23*.

Explanation: This message formats and presents the 24 printer sense bytes that were reported to PSF at the time of an I/O error. A message that describes the specific I/O error accompanies this message.

- *Error sense bytes 0–7* are the first 8 bytes in the sense data, reported in hexadecimal.
- *Overlay identifier* is the identifier from the Begin Overlay or Include Overlay command in which the error occurred. This information was formatted from bytes 8 and 9 of the sense data.
- *Segment identifier* is the identifier from the Begin Page or Include Page Segment command in which the error occurred. This information was formatted from bytes 10 and 11 of the sense data.
- *Command* is the printer command that was being processed at the time the error was detected. This information was formatted from bytes 12 and 13 of the sense data.
- *Object identifier* is the identifier of the object (other than segment or overlay) in which the error occurred. This information was formatted from bytes 14 and 15 of the sense data. The *object identifier* is:
  - For a font object, the HAID from an AR, DF, LCPC, LFC, LFCSC, LFI or LSS command.
  - For a data-object-font component, the HAID from an AR DDOFC, or WOCC command.
  - For a data object resource, the HAID from AR, DDOR, DORE, ICMR, IDO, LPD, RPO, WBCC, WGC, WIC2 or WOCC command.
- *Element identifier* is the identifier of an element within the object type reported in object identifier. This information was formatted from bytes 16 and 17 of the sense data and contains information that is specific to the error sense (See Note) that was reported:
  - For sense X'0821..00', X'0829..00', and X'028F..50', bytes 16–17 contain the code point that caused the error. For double-byte fonts, byte 16 contains the section ID and byte 17 contains the code point. For single-byte fonts, byte 17 contains the code point.

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– For sense X'0500..01' and X'0500..03', bytes 16–17 contain the IO-image self-defining field code that caused the error. For one-byte codes, byte 16 contains X'00' and byte 17 contains the code.

– For sense X'0412..00', bytes 16–17 contain the IO-image self-defining field code that caused the error. For one-byte codes, byte 16 contains X'00' and byte 17 contains the code.

– For sense X'0200..01', bytes 16–17 contain the unsupported or unrecognized PTOCA control sequence function type that caused this error. Byte 16 contains X'00' and byte 17 contains the function-type value.

– For sense X'025D..ee', where ee is a hex value, bytes 16–17 contain a CMR TagID value as defined in *Color Management Object Content Architecture Reference*.

– For sense X'020D..01', X'020D..05' and X'0115..00', bytes 16–17 contain an object-specific error code. Refer to the primary message explanation for a list of object specific error codes.

– For sense X'0237..04', bytes 16–17 contain the inconsistent media destination ID.

– For sense X'03C3..03' and X'021A..03', bytes 16–17 contain the Unicode value in error:

  - When a high-order surrogate code value was not immediately followed by a low-order surrogate code value, bytes 16–17 contain the high-order surrogate value.
  - When a low-order surrogate code value was not immediately preceded by a high-order surrogate code value, bytes 16–17 contain the low-order surrogate code value.
  - When an UTF-8 code value sequence was specified that was not valid, bytes 16–17 contain the first two bytes of the UTF-8 code value sequence.

Note: The error sense is written as Byte 0 Byte 1...Byte 19.

• *Error sense bytes 18–23* are the last 6 bytes in the sense, reported in hexadecimal.

System action: See the accompanying messages for the system action taken.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or an error message. Notify your system programmer.

Problem determination: Items 2, 17, 27.

APS831I   THE COMBINATION OF A CHANNEL CONTROL CHECK AND AN INTERFACE CONTROL CHECK WAS DETECTED IN THE CHANNEL STATUS WORD. THE MISSING INTERRUPT HANDLER TIMER HAS EXPIRED. SOFTWARE RECOVERY IS IN PROGRESS.

Explanation: The I/O Supervisor sets both the channel control check bit and the interface control check bit in the channel status word to indicate that the Missing Interrupt-Handler (MIH) timer has expired.

System action: PSF continues its attempts to perform I/O to the printer until the MIH condition is cleared or is determined to be permanent. If permanent, PSF ends with an abend.

User response: No response is necessary.

System programmer response: Reset the limit for the MIH timer. For the MIH value that pertains to the device type, refer to informational APAR II02083, section "C." If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Restart PSF. If the error persists, consult your system programmer.

Problem determination: Items 1, 18, 27.

APS832I   THE ERROR SENSE BYTES 0–7 = *error sense bytes 0–7*, **OVERLAY ID =** *overlay identifier*, **SEGMENT ID =** *segment identifier*, **COMMAND =** *command*, **TEXT, IMAGE OR IMAGE CELL, AND RULE POSITION ERROR COUNTS =** *number of text position errors*, *number of image position errors*, **AND** *number of rule position errors*, **SENSE BYTES 17–23 =** *error sense bytes 17–23*.

Explanation: This message formats and presents the 24 printer sense bytes that were reported to PSF at the time of an I/O error. A message that describes the specific I/O error accompanies this message.

• *Error sense bytes 0–7* are the first 8 bytes in the sense data, reported in hexadecimal.

• *Overlay identifier* is the identifier from the Begin Overlay or Include Overlay command in which the error occurred. This information was formatted from bytes 8 and 9 of the sense data.

• *Segment identifier* is the identifier from the Begin Page or Include Page Segment command in which the error occurred. This information was formatted from bytes 10 and 11 of the sense data.

- *Command* is the printer command that was being processed at the time the error was detected. This information was formatted from bytes 12 and 13 of the sense data.
- *Number of text position errors* is the number of times an attempt was made to print text characters outside of the valid printable area on this page. A value of 255 means 255 or more such errors were detected. This information was transformed to decimal from byte 14 of the sense data.
- *Number of image position errors* is the number of attempts that were made to print image cells outside of the valid printable area on this page. A value of 255 means 255 or more such errors were detected. Note that a data-stream image might consists of a number of image cells, and each image cell is sent to the printer as one image. This information was transformed to decimal from byte 15 of the sense data.
- *Number of rule position errors* is the number of attempts that were made to print rules outside of the valid printable area on this page. A value of 255 means 255 or more such errors were detected. This information was transformed to decimal from byte 16 of the sense data.
- *Error sense bytes 17–23* are the last 7 bytes in the sense data, reported in hexadecimal.

System action: See the accompanying messages for the system action that was taken.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error messages. Notify your system programmer.

Problem determination: Items 2, 17, 27.

APS833I　　**THE ERROR SENSE BYTES 0–5 =** *error sense bytes 0–5*, **TEXT, IMAGE OR IMAGE CELL, AND RULE POSITION ERROR COUNTS =** *number of text position errors, number of image position errors* **AND** *number of rule position errors*, **SENSE BYTE 9 =** *sense byte 9*, **BUFFER OFFSET =** *printer buffer offset*, **PRINTER STATE =** *printer state*, **COMMAND =** *command*, **SENSE BYTES 14–23 =** *sense bytes 14–23*.

Explanation: This message formats and presents the

24 printer sense bytes that were reported to PSF at the time of an I/O error. A message that describes the specific I/O error accompanies this message.

- *Error sense bytes 0–5* are the first 6 bytes in the sense data, reported in hexadecimal.
- *Number of text position errors* is the number of attempts that were made to print text characters outside of the valid printable area on this page. A value of 255 means 255 or more such errors were detected. This information was transformed to decimal from byte 6 of the sense data.
- *Number of image position errors* is the number of attempts that were made to print image cells outside of the valid printable area on this page. A value of 255 means that 255 or more such errors were detected. Note that a data-stream image might consists of a number of image cells, and each image cell is sent to the printer as one image. This information was transformed to decimal from byte 7 of the sense data.
- *Number of rule position errors* is the number of attempts that were made to print rules outside of the valid printable area on this page. A value of 255 means 255 or more such errors were detected. This information was transformed to decimal from byte 8 of the sense data.
- *Sense byte 9* is the tenth byte in the sense data, reported in hexadecimal.
- *Printer buffer offset* is the approximate byte number (in decimal) in the data sent by the channel command that the printer was processing when it detected the error. This information was transformed from bytes 10 and 11 of the sense data.
- *Printer state* is the state of the printer at the time the error was detected. This information was formatted from byte 12 of the sense data.
- *Channel command* is the channel command that was being processed at the time the error was detected. This information was formatted from byte 13 of the sense data.
- *Sense bytes 14–23* are the last ten bytes in the sense data, reported in hexadecimal.

System action: See the accompanying messages for the system action that was taken.

User response: If the accompanying messages are not sufficient to identify the problem, contact your system programmer.

System programmer response: If the accompanying messages are not sufficient to identify the problem, use the sense data to analyze the problem. For more information about printer sense bytes and the specific error, refer to the printer publications for the printer that reported this error.

Operator Response: No response is necessary.

Problem determination: Items 2, 17, 27.

APS834I   ONE OR MORE CHARACTERS, RULES, IMAGES, OR IMAGE CELLS WERE SPECIFIED TO PRINT OUTSIDE OF THE VALID PRINTABLE AREA, AND THE ADDRESSABILITY LIMIT OF THE PRINTER WAS EXCEEDED.

Explanation: An attempt was made to print outside of the valid printable area. This area is the intersection (common space) of the physical page with the logical page or with an overlay. One or more characters, rules, or images fall at least partially outside of the valid printable area.

In addition, the print position specified for one of the items exceeded the addressability limit of the printer; that is, it was considerably outside of the printable area boundary. This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: A partial page is printed with print-error markers up to this addressability error. The print-error markers are printed at the perimeter of the valid printable area, where attempts were made to cross the boundary. Characters, rules, and images that were not defined completely within the valid printable area are not printed. PSF continues processing the current data set with the page following the page containing the error.

User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the print positioning values in the text-control sequence in the Presentation Text Data (PTX) structured field for positioning outside of the page. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing an image, coordinate the image dimensions with the logical page size.

If you were printing a data set containing line data, using a page segment that you created, check the print-positioning values in the Line Descriptor (LND) structured field.

If you were printing a data set containing line data with embedded structured fields, check the PTX structured field for positioning outside of the page.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or error

messages. Notify your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS835I   ONE OR MORE CHARACTERS, RULES, IMAGES, OR IMAGE CELLS WERE SPECIFIED TO PRINT OUTSIDE OF THE VALID PRINTABLE AREA, AND SOME PRINT-ERROR MARKERS WERE NOT PRINTED BECAUSE OF THE COMPLEXITY OF THE PAGE.

Explanation: An attempt was made to print outside of the valid printable area. This area is the intersection (common space) of the physical page with the logical page or with an overlay. One or more characters, rules, or images fall at least partially outside of the valid printable area.

In addition, the complexity of the page prevented the printing of all the print-error markers that would otherwise be presented to show where attempts were made to print outside the valid printable area. Such a complex page is handled by using an optional accumulator when available, but this message is issued when the accumulator feature is not installed in the printer.

System action: The entire page is printed. Some print-error markers might be printed at the perimeter of the valid printable area, where attempts were made to cross the boundary. One or more print-error markers were not printed because of the lack of printer storage to handle the complexity of the page when markers are included. Characters, rules, and images that were not defined completely within the valid printable area are not printed. The processing of the data set continues.

User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the print positioning values in the text-control sequence in the Presentation Text Data (PTX) structured field for positioning outside of the page. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing an image, coordinate the image dimensions with the logical page size.

If you were printing a data set containing line data, using a page segment that you created, check the print-positioning values in the Line Descriptor (LND) structured field.

If you were printing a data set containing line data with embedded structured fields, check the PTX structured field for positioning outside of the page.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was

valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS836I **DUE TO AN I/O ERROR ON THIS DATA SET, A DUPLICATE PAGE MAY BE PRINTED.**

Explanation: The printer reported an error in the data stream to PSF while the printer was processing this data set. The data stream error is reported in a previous PSF error message in the message data set.

System action: This message is printed both on a separate sheet in the data set to mark the position at which the recovery from this error was started and in the message data set at the end of the print data set. Pages might be duplicated during the recovery. PSF continues processing the current data set with the page after the page containing the error.

User response: The printed output might be acceptable. If pages are duplicated, resubmit the print request. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures in *PSF for z/OS: Diagnosis* before consulting the IBMSupport Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS837I **AN INTERVENTION-REQUIRED CONDITION AT THE PRINTER MAY HAVE CAUSED PARTIAL, MISSING, OR DUPLICATE PAGES.**

Explanation: An intervention-required condition (paper jam, out of paper, or printer not ready for 10 minutes) occurred while the data set was being printed on a 4224 printer or a 4234 printer. As a result, the output might contain partial, missing, or duplicate pages

System action: PSF prints this message at the end of the print data set. The processing of print data set continues.

User response: The output might be acceptable. If any pages are duplicated, resubmit the print request. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before consulting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS838I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE NUMBER OF BITS SPECIFIED FOR A COLOR COMPONENT IN A X'4E' TRIPLET, SET EXTENDED COLOR CONTROL SEQUENCE OR SET PROCESS COLOR DRAWING ORDER IS NOT VALID OR IS UNSUPPORTED.**

Explanation: An incorrect or unsupported value was specified in the Colsize1, Colsize2, Colsize3, or Colsize4 fields of a X'4E' triplet, Set Extended Color control sequence, or set process color drawing order for this printer.

The X'4E' triplet might have occurred on these structured fields:

- A Page Descriptor (PGD).
- An Object Area Descriptor (OBD).

The PGD is contained in an Active Environment Group (AEG) for a page or an overlay, and the OBD is contained in an Object Environment Group (OEG) for a graphics, image, or bar code object, or an object container.

The Set Extended Color control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data.

The Set Process Color drawing order is located in a Graphics Data (GAD) structured field. The structured field might be contained in MO:DCA data, an overlay, or a page segment; or, it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

If the object is in a resource, PSF stops processing the data set that uses the resource in error.

User response: If the structured fields are not valid and you created the structured fields for the resource or print data set containing the image, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

If the color value is unsupported by this printer, resubmit

the print request to a printer that does support this color value.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS839I   **A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INCORRECT OR UNSUPPORTED FINISHING OPERATION AXIS OFFSET VALUE.**

Explanation: The axis offset field (bytes 7–8) in a Finishing Operation Triplet (X'85') contains an incorrect or unsupported value.

Finishing Operation Triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

* If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.
* If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error

to PSF but takes its continuation action and continues processing the page.

* If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.
* If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

* Verify that you have requested the appropriate form definition for the finishing operation intended.
* Submit the print request to a printer that can perform the finishing operation.
* If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS840I THE MAXIMUM NUMBER OF PAGE SEGMENTS THE PRINTER WILL ACCEPT MAY HAVE BEEN EXCEEDED BY A SIMPLEX PAGE OR BY THE FRONT AND BACK OF A DUPLEX SHEET.

Explanation: While loading page segments in the printer, the printer detected and reported that a page segment number was out of the valid range. This error might be caused by a simplex page or by the front and back of a duplex sheet that contains more page segments than the printer can accept.

System action: PSF recovers from the error by deleting any page segments that are not needed for the current sheet at the received page counter, and then resending the page. If PSF receives a second occurrence of this error, PSF issues this message and ends. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: If data stream errors stopped the processing of the page preceding the page for which APS840I was issued, correct the data stream errors first, and resubmit the print request. The condition that caused message APS840I to be issued might be resolved after the other errors have been corrected. If the error is not due to data stream errors, delete some of the page segments on the simplex page or duplex sheet at the received page counter plus 1. If the simplex page or duplex sheet at the received page counter plus 1 does not exceed the number of page segments that the printer can accept, a PSF or printer logic error might have occurred.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS841I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE RELATIVE METRIC MULTIPLYING FACTOR IN THE LOAD FONT CONTROL IS NOT VALID OR IS UNSUPPORTED.

Explanation: The font contains incorrect data. The character set FNC structured field has an incorrect vertical point size or host-font resolution.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Consult your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS842I THE CANCEL BUTTON ON THE PRINTER CONTROL PANEL WAS PRESSED WHILE THE PRINTER WAS PROCESSING A DATA SET.

Explanation: The printer detected and reported to PSF that the cancel button on the printer control panel had been pressed while the printer was processing a data set. For more information about this condition, refer to the printer publications for the printer that reported this error.

System action: If the committed copy counter is greater than zero, PSF cancels the data set at the committed page counter plus 1; otherwise PSF cancels the data set at the committed page counter.

User response: If desired, resubmit the data set that was canceled. If the error persists, consult the operator to see why the cancel button is being pressed.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS843I THE PAGE BEING PROCESSED WAS TOO COMPLEX TO PRINT. ONE OR MORE OBJECTS MAY HAVE TO BE REMOVED FROM THE PAGE IN ORDER TO PRINT IT.

Explanation: An equipment check during printing

indicated a print overrun. The page at the committed page counter plus 1 was too complex to print The printer detected and reported an asynchronous error with an action code of X'09' (sense byte 2). This error occurs either because too many items (for example, images) were placed on a page or because too many overstrikes were requested. Sense information can be obtained from the record in SYS1.LOGREC. For an explanation of the sense bytes, refer to the printer publications for the printer that reported this error.

System action: When the print error was detected, the printer was attempting to print a page that was too complex. PSF stops processing the data set at the committed page counter plus 1.

User response: Remove some of the resources on the page (for example, overlays, images, or page segments), or remove some of the data from the page, and resubmit the print request. Refer to Performance Considerations in the printer publications for the specific printer that reported the error.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS844I **A HARDWARE-RELATED PRINT ERROR OCCURRED DURING THE PRINTING OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.**

Explanation: A temporary hardware-related print error (for example, an image-generator error) occurred in the printer, and caused the printer to require recovery. The printer detected and reported an asynchronous error with an action code of X'16' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF resends pages to the printer, starting from the committed page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which the recovery from this error was started. Pages might be duplicated during the recovery.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request If the error persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If the error condition persists, consult your system programmer.

Problem determination: Items 1, 8, 18.

APS845I **A PERMANENT HARDWARE ERROR WAS DETECTED BY THE PRINTER.**

Explanation: A permanent hardware error was reported by the printer to indicate that the printer cannot be used. The printer detected and reported an asynchronous error with an action code of X'17' (sense byte 2). For more information about this error, refer to the printer publications for the printer that reported this error.

System action: PSF issues this message and ends with an abend.

User response: Inform your system programmer that this error occurred.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: PSF can be restarted, if you use an operational printer.

Problem determination: Items 1, 8, 18, 27.

APS846I **AN INTERFACE CONTROL CHECK OR MIH TIMER EXPIRATION OCCURRED DURING THE PRINTING OF THIS DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.**

Explanation: While communicating with the channel, PSF detected an interface control check or a missing interrupt-handler expiration. After the interface control check or missing interrupt-handler timer expiration, PSF issued additional I/O commands. The interface control check or missing interrupt-handler condition was reported to PSF in the Channel Status Word Channel Status byte.

System action: PSF resynchronizes with the printer and resends pages to the printer, starting from the committed page counter. If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error persists, consult your system programmer.

System programmer response: For more information about this error, refer to the Principles of Operation publication for your operating system. If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 9, 17.

APS847I THE PRINTER SETUP WAS CHANGED WHILE THE PRINTER WAS PROCESSING A DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.

Explanation: The printer characteristics were changed in the printer, and the printer discarded its buffered pages. The printer reports an action code X'1D' to instruct PSF to obtain the new printer characteristics and redrive buffered pages. For more information about this condition, refer to the printer publications for the printer that reported this error.

System action: PSF obtains the new printer characteristics, and then resend pages to the printer, starting from the committed page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which the recovery from this error was started. Pages might be duplicated during the recovery.

If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request If the error persists, consult your system programmer.

System programmer response: If the printer characteristics were not changed at the printer and the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 18.

APS848I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE SET TEXT COLOR CONTROL SEQUENCE CONTAINS AN INCORRECT OR UNSUPPORTED TEXT COLOR OR PRECISION.

Explanation: The Set Text Color (STC) control sequence contains an incorrect or unsupported value for either the Text Color parameter or the Precision parameter. The control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

* If the printer supports the PFC Color Fidelity triplet the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

* If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Contact your operator and ask that your previous print request, which was held, be purged. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

If you submitted the print request to the wrong printer, consult your operator to determine to which printer that data set should be rerouted.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that supports this function. For a JES command to release the data set for printing, refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* .

If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS849I   **ONE OR MORE CHARACTERS, RULES, IMAGES, OR IMAGE CELLS WERE SPECIFIED TO PRINT OUTSIDE OF THE VALID PRINTABLE AREA, AND THE PRINT POSITION COULD NOT BE REPRESENTED IN THE PRINTER.**

Explanation: An attempt was made to print outside of the valid printable area. This area is the intersection (common space) of the physical page with the logical page or with an overlay. One or more characters, rules, or images fall at least partially outside of the valid printable area. In addition, the print position specified for one of the items exceeds the addressable-memory limit of the printer. During the computation of the current print position, an overflow or underflow of the $-32,768$ to $+32,768$ range was detected.

System action: A partial page is printed with print-error markers, printed at the perimeter of the valid printable area where attempts were made to cross the boundary. PSF continues processing the current data set with the page after the page containing the error.

User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the print-positioning values in the text-control sequence in the Presentation Text Data (PTX) structured field for positioning outside of the page. If you were printing a MO:DCA print data set, an overlay, or a page segment, and you used a program to create the structured fields in the object containing the error, consult your system programmer.

If you were printing an image, coordinate the image dimensions with the logical page size.

If you were printing a data set containing line data, and you were using a page segment that you created, check the print-positioning values in the Line Descriptor (LND) structured field.

If you were printing a data set containing line data with embedded structured fields, check the PTX structured field for positioning outside of the page.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS850I   **A CONDITION OCCURRED IN THE PRINTER OR A FUNCTION WAS SELECTED ON THE PRINTER CONTROL PANEL WHILE THE PRINTER WAS PROCESSING A DATA SET. PARTIAL OR DUPLICATE PAGES MAY BE PRINTED.**

Explanation: An error condition in the printer, or a function that was selected on the printer control panel, caused the printer to discard its buffered pages. The printer reports an action code X'1A' to instruct PSF to redrive buffered pages. For more information about this condition, refer to the printer publications for the printer that reported this error.

System action: PSF resends pages to the printer, starting from the committed page counter plus 1. Pages might be duplicated during the recovery.

If repositioning is not supported in the current environment, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request If the error persists, consult your system programmer.

System programmer response: If a function was not selected at the printer, and the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 18.

APS851I   **THE PRINTER REPORTED A DATA STREAM ERROR THAT PSF DOES NOT RECOGNIZE. THE DATA SET IS TERMINATED.**

Explanation: The printer reported an action code X'01' data stream I/O error that PSF does not recognize. This message is accompanied by a message that presents the printer sense bytes.

System action: PSF stops processing and printing the data set.

User response: Inform your system programmer that this error occurred.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If this message displays on the

operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS852I   AN UNEXPECTED VALUE WAS DETECTED IN THE CHANNEL STATUS WORD (CSW): THE CSW UNIT STATUS BYTE = X' *unit status byte***' AND THE CSW CHANNEL STATUS BYTE = X'** *channel status byte***'.**

Explanation: The PSF I/O Error Manager subcomponent detected an unexpected condition in the Channel Status and Unit Status bytes of the Channel Status Word (CSW). I/O Error Manager expects the device-dependent Error Recovery Procedures (ERPs) and the PSF Device Manager subcomponent to handle certain conditions represented by CSW bit settings, without control being passed to I/O Error Manager.

System action: PSF issues this message and ends with an abend.

User response: No response is necessary.

System programmer response: For more information about the Channel Status Word and this CSW bit setting, refer to the Principles of Operation publication for your operating system. If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Restart PSF. If the error persists, notify your system programmer.

Problem determination: Items 1, 8, 18, 27.

APS853I   *mechanism name* IS DISABLED. THE PRINTER REPORTED AN ATTEMPT TO USE THE DISABLED MECHANISM.

Explanation: PSF attempted to use a mechanism in the printer that has been disabled. Because PSF was initialized for the printer, the status of the mechanism listed in the message text, has changed from 'installed and available' to 'installed but not available' (disabled).

System action: PSF issues this message and ends with an abend.

User response: No response is necessary.

System programmer response: If the mechanism indicated in the message is not disabled in the printer, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If the disabled mechanism in the printer is not required for the print data set being processed, restart PSF.

Problem determination: Items 1, 17, 27.

APS854I   THE PRINTER DID NOT REPORT ALL DATA STREAM ERRORS DUE TO THE EXCESSIVE NUMBER OF DATA STREAM ERRORS ON THE PAGE IN ERROR.

Explanation: The printer detected so many data stream errors for the current page at the received page counter plus 1, that the printer could not report all of them to PSF. The printer reported the data stream errors that it was able to store in its error queue. This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error.

System action: PSF prints error messages for the errors that the printer reported, and bases its error recovery on the error with the highest priority.

User response: Correct the errors that were reported. Resubmit the corrected print request to receive the additional errors that were not reported because of this constraint on printer storage.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 8, 18, 27.

APS855I   TEXT EXTENDS BEYOND THE VALID PRINTABLE AREA.

Explanation: The printer detected and reported that one or more attempts were made to print text outside of the valid printable area. This message is accompanied by a message that presents the printer sense bytes. These sense bytes are unique to each printer. Refer to the printer publications for the printer that reported this error. The error was caused by one or more of these:

- The positioning of characters on the line placed the first character outside of the physical page.
- The characters are placed incorrectly.
- The combination of the placement of the baseline and the font used to print the data causes the first pel for the graphic character raster pattern to be placed outside the valid printable area.
- The selected font causes the character to be placed outside of the page boundary.
- A character pattern was placed outside the valid printable area because the characters in the font have "on pels" preceding the character reference point.

- A positioning text-control sequence (Absolute Move Inline [AMI], Absolute Move Baseline [AMB], Relative Move Inline [RMI], or Relative Move Baseline [RMB]) placed the first pel for the graphic character raster pattern outside of the physical page. The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data.
- The wrong paper size was mounted.
- An incorrect output class was specified.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. The page in error is printed with print-error markers to indicate the position and direction of the positioning errors. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: Ensure that the correct form was loaded in the printer. If it was, and if your printed output would be acceptable without the print-error markers, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATACK keyword of the OUTPUT JCL statement. If you want to correct the source of the problem, and if you were printing MO:DCA data, check the current print position relative to the edges of the physical page. Place the logical page so that it does not extend into the unprintable area of the physical page. Use a different font, if necessary, so that the print position is inside the printable area. If you created the structured fields for an overlay or MO:DCA data, check the PTX structured field for positioning outside of the page.

If you were printing a data set containing line data, you could change the font selected from the page definition or the CHARS keyword on the JCL to a smaller font. If you created the structured fields for the page definition, check the print-positioning values in the Line Descriptor (LND) structured field and correlate them with the edges of the physical page.

If you were printing a data set containing line data with embedded structured fields, check the PTX structured field for positioning outside of the page.

System programmer response: No response is necessary.

Operator Response: Ensure that the correct paper size is mounted.

Problem determination: Items 1, 2, 17, 27.

APS856I   ONE OR MORE RULES EXTEND BEYOND THE VALID PRINTABLE AREA.

Explanation: The printer detected and reported one or more attempts to print one or more rules outside of the valid printable area. This message is accompanied by a message that presents the printer sense bytes. The inline or baseline dimension of the Width or Length parameter, in either the Draw Inline Rule (DIR) or the Draw Baseline Rule (DBR) text-control sequence, caused the rule to exceed the right, bottom, left, or top of the logical page. The direction in which the rule was off the page is relative to the paper as it moves through the printer, rather than to the logical page; for example, the top of the sheet is the perforated edge that leads through the printer. The error was caused by one or more of these:

- The rule width or length specified in either the Draw Inline Rule (DIR) or the Draw Baseline Rule (DBR) text-control sequence caused the print position to be outside of the physical page.
- The Horizontal Page Size and Vertical Page Size subparameters in the Page Descriptor (PGD) structured field specified values that caused the width to extend off the logical page.
- The wrong paper size is mounted.
- The output class is incorrect.

The text-control sequence is located in a Presentation Text Data (PTX) structured field. The structured field might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data. The PGD structured field is in MO:DCA data, an overlay, or a page definition.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. The page in error is printed with print-error markers to indicate the position and direction of the positioning errors. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: Ensure that the correct form was loaded in the printer. If it was, and if your printed output would be acceptable without the print-error markers, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATACK keyword on the OUTPUT JCL statement. If you want to correct the source of the problem, you could change the size of the logical page. If you want the logical page size to remain the same, and if you were printing a page segment, an overlay, or MO:DCA data, and you created the structured fields for the object containing the error, check the text-control sequence in the PTX structured field for positioning outside of the page.

If you were printing a data set containing line data, and you were using a page segment that you created, check the print-positioning values in the Line Descriptor (LND)

structured field and correlate them with the edge of the page that was exceeded (logical or physical).

If you were printing a data set containing line data with embedded structured fields, check the PTX structured field for positioning outside of the page.

System programmer response: No response is necessary.

Operator Response: Ensure that the correct paper size is mounted.

Problem determination: Items 1, 2, 17, 27.

APS857I   ONE OR MORE IMAGES OR IMAGE CELLS EXTENDS BEYOND THE VALID PRINTABLE AREA.

Explanation: The printer detected and reported an image extending outside of the valid printable area. This message is accompanied by a message that presents the printer sense bytes. The position or direction in which the image was off the page is relative to the paper as it moves through the printer, rather than to the logical page; for example, the top of the sheet is the perforated edge that leads through the printer. The error was caused by one or more of these:

- The horizontal or vertical coordinates of the image were outside of the logical page size specified in the Page Size parameter in the Page Descriptor (PGD) structured field. The PGD structured field is in MO:DCA data, an overlay, or a page definition.
- The Image Size parameter in the Image Input Descriptor (IID) structured field, when added either to the Horizontal Coordinate or to the Vertical Coordinate subparameter of the Image Output Control (IOC) structured field, placed the image outside of the logical page.
- Either the X-position or the Y-position subparameter of the Image Cell Position (ICP) structured field placed the image outside of the logical-page size.
- Within line data, the image can be placed relative to the current print position. The font used to print the data, therefore, determined the start of the image and caused the image to be outside of the logical page.
- The font used to print the data caused the image to be outside of the physical page.
- The wrong paper size is mounted.
- The output class is incorrect.

The image block or image cell might be contained in an overlay, a page segment, or a MO:DCA document. It might also be embedded in a data set containing line data, using a Begin Image (BIM) structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. The page in error is printed with print-error markers to indicate the position and direction of the positioning errors. PSF continues processing the current data set with the page following the page in

error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: Ensure that the correct form was loaded in the printer. If it was, and if your printed output would be acceptable without the print-error markers, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATACK keyword on the OUTPUT JCL statement. If you want to correct the source of the problem, and if the image was positioned relative to the print position, you could use a different font so that the image origin falls inside the printable area. You could also change the size of the logical page. If you want the font and the logical page size to remain as defined, and you created the structured fields for the image, coordinate the IOC, ICP, or IID structured fields with the logical page size.

System programmer response: No response is necessary.

Operator Response: Ensure that the correct paper size is mounted.

Problem determination: Items 1, 2, 17, 27.

APS858I   SYSTEM ACTION TAKEN: PSF STOPPED PROCESSING THE PAGE IN ERROR AND CONTINUES TO PROCESS THE DATA SET STARTING WITH THE NEXT PAGE. THE PRINTER MIGHT STILL PRINT THE PAGE IN ERROR.

Explanation: This message indicates the recovery that PSF performs when the printer reports an I/O error to PSF. This message accompanies a message that describes the I/O error and a message that displays the sense bytes reported from the printer.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS859I **SYSTEM ACTION TAKEN: PSF TERMINATED THE DATA SET THAT CONTAINED THE PAGE IN ERROR. PSF WILL PROCESS THE NEXT DATA SET.**

Explanation: This message indicates the recovery that PSF performs when the printer reports an I/O error to PSF. This message accompanies a message that describes the I/O error and a message that displays the sense bytes reported from the printer.

System action: The printer you were using might attempt to print the page containing the error, or might print only part of the page. If the page containing the error contains any positioning errors, print-error markers might be included on the printed page. PSF stops processing and printing the data set that contains this error.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS860I **THE SPECIFIED INPUT BIN CANNOT BE USED WITH THE SPECIFIED OUTPUT BIN.**

Explanation: The specified media source cannot be used with the specified media destination. One example of this type of error is using inserts that are located on a post processor input bin and routing the data set to an output bin located back on the printer.

Note: In the formatted sense message (APS830I), the second byte of the Object Identifier (byte 15) contains a media-source ID, and the Element Identifier (bytes 16–17) contains the media-destination ID that is incompatible with the media-source ID.

System action: PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: If you specified an output bin with the OUTBIN keyword and it is the wrong output bin, change the bin and resubmit the print job. Your data set might require a different printer configuration. For more information about your printer configuration, refer to the printer publications for the printer that reported this error.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS861I **A CHARACTER IN THE PRINT DATA IS NOT VALID ACCORDING TO THE CODE PAGE ASSOCIATED WITH THE FONT.**

Explanation: The Flag Byte parameter in either the Code Page Control (CPC) or a repeating group of the Code Page Index (CPI) structured field had the undefined or unprintable bit set for a code point in the text data that was to be printed. The CPC and CPI structured fields are in the code page. This error occurred because DATACK=UNBLOCK or BLKPOS was specified in the OUTPUT JCL statement or the PRINTDEV JCL statement in the PSF initialization procedure, Print error reporting was specified as All, or Position was specified in the Printer Inventory and one of these conditions existed:

* The code page did not include the code point, and the default character, specified by the CPC, had the not valid flag on.
* The character assigned to this code point did not exist in the character set, and the default character, specified by the CPC, had the not valid flag on.
* The code point, specified by the CPI structured field, had the not valid flag on.

This page might contain other data stream errors that PSF has not reported but that the printer has highlighted.

System action: The printer you were using might attempt to print the page in error, or might print only part of the page. If the page containing the error contains any position errors, print-error markers are included on the printed page. PSF continues processing the current data set with the page following the page containing the error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: To eliminate this error message from your output, you can resubmit the print request, specifying BLOCK or BLKCHAR for the DATACK keyword on the JCL OUTPUT statement. For more information on how to code this keyword, refer to *PSF for z/OS: User's Guide*.

If you want to correct the source of the problem, you first need to identify which character in which font contains the error.

If the printer returned the information about the incorrect character, check these:

* Immediately following this message (APS861I) is a formatted sense message (APS830I). The *Element*

Identifier field in this message contains the code point in which the error occurs, or zeroes if the printer did not return the information.

- To determine which code page and character set pair have the incorrect code point, check messages APS701I. The APS701I messages are environmental messages for this page. If the printer returned the information, one of the APS701I messages provides the *Active Code Page Name* and the *Active Character Set Name*.

Ensure that the code point in the print data is correct. If the code point is incorrect, and you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information on the correct format of the referenced structured field. If you used a program to create the structured fields for the code page, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages of the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS862I ONE OR MORE CHARACTERS, RULES, IMAGES, OR IMAGE CELLS WERE SPECIFIED TO PRINT OUTSIDE OF THE VALID PRINTABLE AREA.

Explanation: An attempt was made to print outside of the valid printable area. This area is the intersection (common space) of the physical page with the logical page or with an overlay. Characters, rules, or image cells fall at least partially outside of the valid printable area. Note that a data stream image might consist of a number of image cells, an each cell is sent to the printer as one image. Other data stream errors might exist on this page that PSF has not reported but that the printer has highlighted.

System action: The printer you were using might attempt to print the page in error, or might print only part of the page. If the page containing the error contains any position errors, print-error markers are included on the printed page. PSF continues processing the current data set with the page following the page containing the error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: Ensure that the correct form was loaded in the printer. If it was, and if your printed output would be acceptable without the print-error markers, you can resubmit the print request, specifying BLOCK or BLKPOS for the DATACK keyword on the OUTPUT JCL statement. If you want to correct the source of the problem, you could change the size of the logical page. If you want the logical page size to remain the same and if you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, check the print-positioning values in the text-control sequence in the Presentation Text Data (PTX) structured field for positioning outside of the page.

If you were printing an image, coordinate the image dimensions with the logical page size.

If you were printing a data set containing line data, and you were using a page definition that you created, check the print-positioning values in the Line Descriptor (LND) structured field.

If you were printing a data set containing line data with embedded structured fields, check the PTX structured field for positioning outside of the page.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS863I A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INCORRECT OR UNSUPPORTED FINISHING OPERATION TYPE FOR THIS FINISHER.

Explanation: The operation type field (byte 2) in a Finishing Operation Triplet (X'85') contains an incorrect or unsupported value for this finisher.

Finishing Operation Triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation

rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error

might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS864I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A PARAMETER VALUE IN A TEMPORARY BASELINE MOVE TEXT CONTROL IN A PTX STRUCTURED FIELD IS NOT VALID.

Explanation: The Temporary Baseline Move (TBM) text control has an incorrect value in the direction parameter, the precision parameter, or both. The text-control sequence is in a Presentation Text Data (PTX) structured field. The PTX structured field might be in MO:DCA data, an overlay, or a page segment; or it might be embedded in a data set containing line data.

System action: The printer you were using attempts to print the page containing the error, or might print only part of the page. If the page containing the error contains any position errors, print-error markers are included on the printed page. PSF continues processing the current data set with the page after the page containing the error, unless the printer reports another error that requires a more severe recovery action.

User response: If you were printing MO:DCA data, an overlay, or a page segment, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTX structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PTX has no errors, the error might be a PSF or printer logic error. If you were printing MO:DCA data, an overlay, or a page segment, and you used a program to create the structured fields, consult your system programmer.

If you were printing a data set containing line data with embedded structured fields, correct the text-control sequence in the PTX structured field. If the PTX has no errors, the error might be a PSF or printer logic error.

If you were printing a data set containing line data without embedded structured fields, the error might be a PSF or printer logic error.

System programmer response: If an IBMlicensed program was used to create the print file or resource with the error, verify that the input to that program was valid. If the input was valid, consult *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS865I   THE ACTUAL MEDIA LOADED DOES NOT MATCH THE FORM THAT WAS SELECTED AT THE PRINTER CONSOLE.

Explanation: The media currently loaded in the printer does not match the form that was selected at the printer console. The printer detected and reported an asynchronous intervention-required error with an action code of X'0A' (sense byte 2). Bytes 0, 1, and 19 of the error are 4035..00. For more information about this error, refer to the printer publications for the printer that reported the error.

System action: PSF resends pages to the printer, starting from the jam recovery page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which the recovery from this error was started. If repositioning is not supported in the current environment, the data set is ended.

User response: The printed output might be acceptable. If the error condition persists, consult your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Clear the paper up to the jam recovery page counter. Perform these tasks in order to continue printing:

- Verify that the correct form for the job is selected at the printer console. If the correct form for the job is not selected, change it to the correct one.

- Load the paper that matches the selected form at the printer console. For a continuous forms printer, be sure to NPRO the correct paper up to the jam recovery page counter.

- If the correct paper for the job is not available, do one of these:
  - Cancel the job at the printer console. The job must be resubmitted when the correct paper is available.

  - Disable the verifier and continue printing with the paper that is available.

PSF assumes that pages between the jam recovery page counter and the stacked page counter are not damaged and do not need to be reprinted. If any pages between these two counters do need to be reprinted, use the JES BACKSPACE command.

Problem determination: Items 1, 8, 18.

APS866I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A PTD-2 INLINE DIRECTION IS NOT VALID.

Explanation: The inline direction value specified as the initial default for the Set Text Orientation (STO) text control in the Self Identifying Parameters field of the Presentation Text Descriptor Format 2 (PTD-2) structured field is not valid or is unsupported. The PTD-2 structured field might be in an overlay, MO:DCA data, or a page definition.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you were printing a MO:DCA document or an overlay, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTD-2 structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PDT-2 has no errors, the error might be a PSF or printer logic error. If you were printing a MO:DCA document or an overlay, and you used a program to create its structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS867I DATA IN A FORMDEF RESOURCE IS NOT VALID: THE PAGE ORIGIN VALUE IN THE PGP STRUCTURED FIELD IS NOT ACCEPTABLE.

Explanation: The Page Origin parameter in the Page Position (PGP) structured field specifies, in pels, the displacement of the page from the origin of the physical page. This parameter has two subparameters, the X-origin and the Y-origin, and one of these has an incorrect value. The PGP structured field is in the form definition.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17.

APS868I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A PTD-2 BASELINE DIRECTION IS NOT VALID.

Explanation: The baseline direction value specified as the initial default for the Set Text Orientation (STO) text control in the Self Identifying Parameters field of the Presentation Text Descriptor Format 2 (PTD-2) structured field is not valid or is unsupported. The PTD-2 structured field might be in an overlay, MO:DCA data, or a page definition.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you were printing a MO:DCA document or an overlay, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTD-2 structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PDT-2 has no errors, the error might be a PSF or printer logic error. If you were printing a MO:DCA document or an overlay, and you used a program to create its structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS869I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A PTD-2 INLINE COORDINATE IS NOT VALID.

Explanation: The inline coordinate position value specified as the initial default for the Absolute Move inline (AMI) text control in the Self Identifying Parameters field of the Presentation Text Descriptor Format 2 (PTD-2) structured field is not valid or is unsupported. The PTD-2 structured field might be in an overlay, MO:DCA data, or a page definition.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you were printing a MO:DCA document or an overlay, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTD-2 structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PDT-2 has no errors, the error might be a PSF or printer logic error. If you were printing a MO:DCA document or an overlay, and you used a program to create its structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that

the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS870I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A PTD-2 BASELINE COORDINATE IS NOT VALID.

Explanation: The baseline coordinate position value specified as the initial default for the Absolute Move Baseline (AMB) text control in the Self Identifying Parameters field of the Presentation Text Descriptor Format 2 (PTD-2) structured field is not valid or is unsupported. The PTD-2 structured field might be in an overlay, MO:DCA data, or a page definition.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you were printing a MO:DCA document or an overlay, and you created the structured fields in the object containing the error, correct the text-control sequence in the PTD-2 structured field. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the PDT-2 has no errors, the error might be a PSF or printer logic error. If you were printing a MO:DCA document or an overlay, and you used a program to create its structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS871I   A FORMDEF RESOURCE REQUESTED N_UP, BUT N_UP IS NOT SUPPORTED FOR ENVELOPES.

Explanation: The printer does not support N_UP printing on envelopes.

System action: PSF stops processing the current data set, releases the current data set to JES, and requests the system to hold it unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: Change the form definition to one that does not request N_UP on the next submission, or submit the job to a printer that does not have envelopes in the bin requested by the form definition.

System programmer response: Fix the form definition or replace it with one that does not request N_UP printing.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS872I   THE SPECIFIED INPUT BIN CANNOT BE USED WITH THE SPECIFIED OUTPUT BIN.

Explanation: The paper size in the input bin selected is not compatible with the output bin selected for the data set. The input bin is either the printer default input bin, or the bin specified in the form definition for the data set. The output bin is either the printer default output bin, or the bin specified on the OUTBIN keyword on the JCL OUTPUT statement for the data set.

Note: In the formatted sense message (APS830I), the second byte of the Object Identifier (byte 15) contains a media-source ID, and the Element Identifier (bytes 16–17) contains the media-destination ID that is incompatible with the media-source ID.

System action: PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: If you specified an output bin with the OUTBIN keyword, and it is the wrong output bin, change the bin and resubmit the print job. Contact the operator to have your previous print request purged. If you submitted the job to the wrong printer, contact the operator and specify to which printer your print request should be released.

System programmer response: No response is necessary.

Operator Response: If you are running under JES, use the JES data set release commands to release the data set to a printer that supports this function. To find a JES command to release the data set for printing, refer to the JES commands publication for the level of JES

you are using. If this message displays on the operator console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS873I   **DATA IN A FONT RESOURCE IS NOT VALID: TOO MUCH OR TOO LITTLE CODE PAGE DATA WAS RECEIVED.**

Explanation: The amount of code page data in the Code Page Index (CPI) structured field does not match the value in bytes 34-37 in the Code Page Descriptor (CPD) structured field (if present), or is inconsistent with the CPI repeating group length (specified in byte 9 of the Code Page Control structured field).

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS874I   **OUTPUT BIN** *bin number* **WAS REQUESTED BUT CANNOT BE USED WITH INPUT BIN** *bin number*.

Explanation: The paper size in the input bin selected is not compatible with the output bin selected for the data set. The input bin is either the printer default input bin, or the bin specified in the form definition for the

data set. The output bin is either the printer default output bin, or the bin specified on the OUTBIN keyword on the JCL OUTPUT statement for the data set.

System action: PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: If you specified an output bin with the OUTBIN keyword, and it is the wrong output bin, change the bin and resubmit the print job. If the bin values are correct, the data set must have been sent to a printer with a bin configuration that was not compatible with the bins requested for the data set. Consult your operator to determine which printer the data set should be rerouted to.

System programmer response: No response is necessary.

Operator Response: If you are running under JES, use the JES data-set release commands to release the data set to a printer with consistent bins. For a JES command to release the data set for printing, refer to the publication containing JES commands for your operating system.

Problem determination: Items 1, 2, 17, 27.

APS875I   **DATA IN A FORMDEF RESOURCE IS INCOMPATIBLE: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES A FINISHING OPERATION THAT IS INCOMPATIBLE WITH THE SELECTED MEDIA OR THE SELECTED MEDIA DESTINATION.**

Explanation: A finishing operation specified in a Finishing Operation Triplet (X'85' or X'8E') is incompatible with the selected physical media or with the media destination. Some printers do not support all sizes of media or mixed-size media when finishing. Also, some printers restrict the possible media destination of finished data sets to a subset of all media destinations available.

Finishing Operation Triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- If you have specified OUTBIN on your JCL OUTPUT statement, make sure it selects a media destination that supports finished output.

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS876I   **DATA IN A FONT RESOURCE IS NOT VALID: THE PATTERN TECHNOLOGY IDENTIFIER IN A FONT CHARACTER SET IS NOT VALID OR IS UNSUPPORTED.**

Explanation: The pattern technology identifier specified in byte 1 in the Font Control (FNC) structured field is not valid or is unsupported.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS877I   DATA IN A FONT RESOURCE IS NOT VALID: THE NUMBER OF BYTES IN THE FNG OR FNN STRUCTURED FIELD IS NOT VALID OR IS UNSUPPORTED.

Explanation: The Font Data Length specified in bytes 28-31 in the Font Control (FNC) structured field, or the Font Name Map Data Count specified in bytes 36-39 in the FNC structured field, was not valid or is unsupported.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS878I   DATA IN A FONT RESOURCE IS NOT VALID: THE FNN DATA COUNT IN THE FNC STRUCTURED FIELD IS NOT VALID OR IS UNSUPPORTED.

Explanation: The Font Name Map (FNN) Data Count specified in bytes 36–39 of the Font Control (FNC) structured field is not valid or is unsupported.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS879I   DATA IN A FONT RESOURCE IS NOT VALID: THE ENCODING PARAMETERS IN THE FNN STRUCTURED FIELD ARE NOT VALID OR ARE UNSUPPORTED.

Explanation: The value specified in byte 0 or byte 1 in the Font Name Map (FNN) structured field is not valid or is unsupported.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS880I   **DATA IN A FONT RESOURCE IS NOT VALID: AN INCORRECT TECHNOLOGY-SPECIFIC ID OFFSET WAS SPECIFIED IN AN FNN STRUCTURED FIELD.**

Explanation: An incorrect technology-specific ID offset value was specified in the second section of an FNN structured field.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS881I   **DATA IN A FONT RESOURCE IS NOT VALID: AN INCORRECT TECHNOLOGY-SPECIFIC ID LENGTH WAS SPECIFIED IN AN FNN STRUCTURED FIELD.**

Explanation: An incorrect technology-specific ID length value was specified in the third section of an FNN structured field.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host

version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS882I   **DATA IN A FONT RESOURCE IS NOT VALID: AN INCORRECT TECHNOLOGY-SPECIFIC OBJECT LENGTH WAS SPECIFIED IN THE FNG STRUCTURED FIELD.**

Explanation: The technology-specific object length specified in bytes 0–3 in the Font Patterns (FNG) structured field is not valid.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS883I   DATA IN A FONT RESOURCE IS NOT VALID: THE CHECKSUM VALUE SPECIFIED IN THE FNG STRUCTURED FIELD DOES NOT MATCH THE CHECKSUM VALUE CALCULATED BY THE PRINTER.

Explanation: The checksum specified in bytes 4–7 of the Font Patterns (FNG) structured field does not match the checksum value calculated by the printer.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS884I   DATA IN A FONT RESOURCE IS NOT VALID: AN INCORRECT TECHNOLOGY-SPECIFIC OBJECT NAME LENGTH WAS SPECIFIED IN THE FNG STRUCTURED FIELD.

Explanation: The value specified for the technology-specific object name length in bytes 8-9 of the Font Patterns (FNG) structured field is not valid.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS885I   PARAMETERS IN A FORMDEF RESOURCE ARE NOT VALID OR ARE UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INCORRECT OR UNSUPPORTED NUMBER OF FINISHING POSITIONS.

Explanation: In a Finishing Operation Triplet (X'85'), either the number of position values specified does not match the count (byte 6), or the number of supported positions has been exceeded.

Finishing Operation Triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be

controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content*

Architecture Reference and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS886I   **A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INCORRECT OR UNSUPPORTED FINISHING OPERATION POSITION VALUE.**

Explanation: A finishing operation position field in a Finishing Operation Triplet (X'85') contains an incorrect or unsupported value.

Finishing Operation Triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error

contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.
- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS887I   **DATA IN A FONT RESOURCE IS NOT VALID: THE CHARACTER-ID ENCODING PARAMETER FOR A FONT CHARACTER SET EXTENSION DOES NOT MATCH THE CHARACTER-ID ENCODING PARAMETER FOR THE PARENT DOUBLE-BYTE OUTLINE FONT.**

Explanation: Either the IBMcharacter-ID format value or the technology-specific character-ID map of a font character set extension does not match the equivalent value in the parent font character set.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS888I   **DATA IN A FONT RESOURCE IS NOT VALID: ONE OR MORE GCGIDS IN AN FNN STRUCTURED FIELD IS OUT OF ORDER.**

Explanation: Graphic Character Global Identifiers (GCGIDs) in the second section of a Font Name Map (FNN) structured field are not in ascending-EBCDIC order.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host

version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS889I **DATA IN A FONT RESOURCE IS NOT VALID: ONE OR MORE OF THE TECHNOLOGY-SPECIFIC OBJECTS IN AN FNC STRUCTURED FIELD CONTAINS INCORRECT DATA.**

Explanation: The technology specific object provided in a Font Patterns (FNG) structured field contains incorrect data. The character set is unusable.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS890I **DATA IN A FONT RESOURCE IS NOT VALID: THE SETTING OF THE MICR BIT IN THE FNC STRUCTURED FIELD IS INCONSISTENT WITH THE BASE RESIDENT OUTLINE FONT.**

Explanation: Bit 1 in byte 3 of the Font Control (FNC) structured field indicates whether the font is intended for Magnetic Ink Character Recognition (MICR) printing. The setting of this bit is inconsistent with the intended-for-MICR setting of the base resident outline font.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS891I **DATA IN A FONT RESOURCE IS NOT VALID: THE ENCODING SCHEME IN A CODE PAGE IS NOT VALID OR UNSUPPORTED.**

Explanation: The encoding scheme specified in bytes 42–43 in the Code Page Descriptor (CPD) structured field is incorrect or is unsupported.

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System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS892I   DATA IN A FONT RESOURCE IS NOT VALID: THE AMOUNT OF CODE PAGE DATA SPECIFIED IN A CPD, CPI OR CPC STRUCTURED FIELD IS NOT VALID OR IS UNSUPPORTED.

Explanation: The amount of code page data in a Code Page Index (CPI) structured field is not valid or is unsupported; or the value specified in bytes 34–37 in a Code Page Descriptor (CPD) structured field is not valid or is unsupported; or the CPI repeating group length specified in byte 9 of the CPC structured field is not valid or is unsupported.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error.

If you used a program to create the structured fields for the font, contact your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS893I   DATA IN A FONT RESOURCE IS NOT VALID: THE CODE POINTS SPECIFIED IN A CPI STRUCTURED FIELD ARE OUT OF ORDER.

Explanation: Code points in a double-byte code page should be specified in ascending order in the Code Page Index structured field, but were not.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

A System Action message is issued indicating which action was taken.

User response: If you created the structured fields for the double-byte code page, correct the error and resubmit the print request. For more information about the structured field, refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference*. If the structured field has no error, or if the code page is not a double-byte code page, the error might be a PSF logic error. If you used a program to create the structured fields for the code page, consult your system programmer.

If the font is a printer-resident font, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the code page containing the error, verify that the input to that program was valid. If the input was valid, or if the code page is not a double-byte code page, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

If the font is a printer-resident font, consult your IBM

printer hardware service representative.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS894I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE CHARACTER INCREMENT FOR THE OVERSTRIKE CHARACTER IS NOT VALID.**

Explanation: The character increment for the overstrike character specified in bytes 5–6 in a PTOCA Overstrike Control Sequence (OVS) must be greater than zero and equal to or greater than the character box for the font, but was not. The character increment for the character is specified in bytes 8-9 in the Font Index (FNI) structured field. The uniform box size for the font is specified in bytes 10–13 in the Font Control (FNC) structured field. Either the overstrike character specified in the OVS is not an appropriate overstrike character set, or its character increment is inconsistent with the character box size for the font.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the font or the data set containing the OVS structured field, correct the error and resubmit the print request. For more information on the fields, refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* or *Presentation Text Object Content Architecture Reference*. If the structured fields have no errors, the error might be a PSF logic error. If you used a program to create the structured field, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS895I   **SYSTEM ACTION TAKEN: PSF WILL ATTEMPT TO DOWNLOAD A HOST VERSION OF THE PRINTER-RESIDENT FONT IN ERROR AND CONTINUE PROCESSING THE DATA SET.**

Explanation: This message describes the recovery performed by PSF when the printer reports an I/O error

to PSF. This message accompanies a message that describes the I/O error.

System action: If the font containing the error is a printer-resident font, PSF attempts to download the host version of the font and continue processing the current page; otherwise PSF stops processing and printing the data set.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS896I   **THE DATA IN AN OBJECT CONTAINER RESOURCE WAS CONSIDERED INCORRECT BY THE PRINTER. CODE = (***code and brief description***).**

Explanation: The data in an object container resource was not considered valid by the printer, although the printer supports the resource type as identified by the Object Classification Triplet on the Begin Object Container structured field.

For a complete list of the error codes and descriptions, refer to *Intelligent Printer Data Stream Reference*.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the data in the structured fields of the object container resource, correct the error and resubmit the print request. Refer to the appropriate documentation for the data stream being carried in the object container resource. If you used a program to create the structured fields and the data, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS897I   DATA IN A FONT RESOURCE IS NOT VALID: THE COMPONENTS OF A GRID ARE NOT PRESENT OR ARE NOT VALID IN THE COMBINATION OF THE FONT CHARACTER SET AND CODE PAGE. A VALID GRID IS REQUIRED IN ALL FONTS FOR THIS PRINTER.

Explanation: While loading a font, the printer detected that not all the components of the GRID were present, or that some of them were not valid. The components of the GRID are in the code page and character set for the font.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS898I   DATA IN A CODE PAGE RESOURCE IS NOT VALID: THE GCSGID AND/OR CPGID ARE NOT VALID OR ARE NOT PRESENT. A VALID GCSGID AND CPGID ARE REQUIRED IN ALL FONTS FOR THIS PRINTER.

Explanation: While loading a code page, the printer detected that the GCSGID or CPGID was not present or was not valid.

System action: PSF stops processing the current data

set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the code page, correct the error and resubmit the print request. For more information about the structured field, refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the code page, consult you system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS899I   DATA IN A FONT CHARACTER SET RESOURCE IS NOT VALID: THE GCSGID AND/OR THE FGID ARE NOT VALID OR ARE NOT PRESENT. A VALID GCSGID AND FGID ARE REQUIRED IN ALL FONTS FOR THIS PRINTER.

Explanation: While loading a font character set, the printer detected that GCSGID or FGID was not present or was not valid.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the code page, correct the error and resubmit the print request. For more information about the structured field, refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference*. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the code page, consult your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program

was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS920I   MICROCODE ERROR DETECTED ON PRINTER *prtnnnn*. **PRINTER RESPONSE IS NOT VALID.**

Explanation: PSF requested a response from the printer, but the printer returned a response which is not valid. The incorrect response is one of these:

- Multiple acknowledgement records within a single SNA or TCP/IP response
- Type of IPDS acknowledgement is not expected
- A null IPDS acknowledgement
- Not an IPDS acknowledgement

System action: PSF processing is abnormally ended with abend 024 and abend reason code 02E5, 02EB, 02F7, or 02F8 depending on the type of incorrect printer response. PSF begins restart processing. If this message is issued frequently, PSF might continue with abnormal ending and not perform restart processing.

User response: No response is necessary.

System programmer response: This error is most likely due to a printer microcode problem, but could be a PSF logic error. Consult your hardware service representative. If the printer is channel-attached to a channel extender, this is probably a channel extender microcode problem. Contact your channel extender hardware service representative.

To determine if PSF began restart processing, check the operator console for message APS038I. To verify it was successful, check the console for message APS057I. If restart processing fails, PSF issues message APS053I and continues with abnormal ending. If message APS920I is issued frequently, PSF might continue with abnormal ending and take a SVC dump. For more information concerning PSF restart processing, refer to *PSF for z/OS: Diagnosis*.

Operator Response: If this message is displayed frequently or restart processing failed, contact your system programmer.

Problem determination: Items 1, 9, 18.

APS921I   THE PAGE PRINTER COMMUNICATION COMPONENT COULD NOT BE LOADED. COMMUNICATION WITH SNA-ATTACHED PRINTER (*prtnnnn***) CANNOT BE ESTABLISHED.**

Explanation: During PSF initialization, a LOAD error occurred while attempting to load the Page Printer Communication Component (PPCC) load module, DCKVTBL. DCKVTBL is required in order to communicate with the SNA-attached printer *prtnnn*. DCKVTBL is probably not in an authorized library.

System action: This message is issued during PSF initialization. PSF initialization is stopped.

User response: No response is necessary.

System programmer response: Ensure DCKVTBL is a member in an authorized library which is defined to the LNKLST concatenation.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS922I   COMMUNICATION WITH SNA-ATTACHED PRINTER (*prtnnnn***) LUNAME (***luname***) WAS TERMINATED, CAUSE (***cause***) VTAM CODE ('***nnnn***'X) SNA SENSE ('***mmmm***'X).**

Explanation: This message indicates a probable network or printer error. For more information, refer to the appropriate referenced publications and see message APS925I. Communication with PRINTER (*prtnnnn*) was ended for the reason specified by CAUSE (*cause*).

A VTAM CODE ('*nnnn*'X) and SNA SENSE ('*mmmm*'X) are provided. The communications session cannot be reestablished, for one of these reasons:

- The CAUSE is an error condition that cannot be tried again.
- The Printer Inventory specified Failure Action = Stop or PSF PRINTDEV specified FAILURE=STOP.
- The retry limit has been reached.

Any previous retries would have caused corresponding APS925I messages. For information about VTAM codes (such as RTNCD-FDBK2), reason codes (such as LOSTERM), and return codes (such as TPEND or OPEN), refer to *z/OS Communications Server: IP and SNA Codes*. For information about the SNA SENSE in the error message, refer to *Systems Network Architecture Formats*, GA27-3136.

PRINTER (*prtnnnn*) specifies the name on the PRINTDEV statement. LUNAME (*luname*) specifies the SNA logical unit name of the SNA-attached printer. CAUSE can be one of these:

- ALLOCATION ERROR—HALT REQUESTED. The printer is not allocated because the VTAM network, or some subset of the network that includes this printer, is being shut down. No new communication is allowed.
- ALLOCATION ERROR—TRANSACTION PROGRAM NAME. The printer is not allocated, because the remote transaction program name is not compatible with PSF.
- ALLOCATION ERROR—TRANSACTION PROGRAM RETRY. The printer is not allocated, because the remote transaction program is temporarily not available. Either the program is not currently authorized to run, or the resources to run it are not currently available.
- DEALLOCATE—ABEND. The remote transaction program has deallocated the communication with TYPE(ABEND_TIMER), because its Device Busy Timer has expired.
- DEALLOCATE—TIMER. The remote transaction program has deallocated the communication with TYPE(ABEND_TIMER), because its Device Busy Timer has expired.
- DEALLOCATE—NORMAL. The remote transaction program has deallocated the communication with TYPE(FLUSH).
- SESSION FAILURE—DEVICE ERROR. Communication with the printer has been ended because of a problem reported by the remote printer. SNA SENSE gives the SNA sense code sent by the printer.
- SESSION FAILURE—LOSTERM. Communication with the printer has been ended because a VTAM 'LOSTERM' exit was issued with the code given by VTAM CODE.
- SESSION FAILURE—NETWORK ERROR. Communication with the printer has been ended because a problem was encountered within the communications network. The RTNCD-FDBK2 from the VTAM RPL on entry to SYNAD/LERAD is given in the VTAM CODE field of the message.
- SESSION FAILURE—TPEND. Communication with the printer has been ended because a VTAM 'TPEND' exit was issued with the code given by VTAM CODE.
- SESSION FAILURE—UNBIND. The conversation with the printer has been ended because an 'UNBIND' was received with the code given by VTAM CODE. For UNBIND types, refer to *Systems Network Architecture Formats*.
- SESSION RETRY—DEVICE ERROR. Communication with the printer has been ended because of a problem reported by the remote printer. SNA SENSE gives the SNA sense code sent by the printer.
- SESSION RETRY—LOSTERM. Communication with the printer has been ended because a VTAM 'LOSTERM' exit was issued with the code given by

VTAM CODE. If the VTAM CODE is zero, NSEXIT was issued with a CLEANUP RU. In either case, the session was lost.
- SESSION RETRY—UNBIND. Communication with the printer has been ended because an 'UNBIND' was received with the code given by VTAM CODE. For UNBIND types, refer to *Systems Network Architecture Formats*.
- SESSION RETRY—NETWORK ERROR. Communication with the printer has been ended because a problem was encountered within the communications network. The RTNCD-FDBK2 from the VTAM RPL on entry to SYNAD/LERAD is given in the VTAM CODE field of the message.
- NO VTAM. VTAM is not available to honor the request to connect PSF with VTAM. The VTAM CODE gives the return code from the VTAM OPEN macro.
- APPLID PROBLEM. A problem with the network definition of the APPLID (name of the local logical unit) is specified on the JCL procedure used to start PSF. The VTAM CODE gives the return code from the VTAM OPEN macro.
- ACTIVATE—LOGICAL UNIT BUSY. Activation of the communication session failed, because the requested logical unit was busy or unavailable at this time. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE. If the printer is not actually in use, LOGAPPL should be removed from the LU statement in your VTAM network definition for the printer.
- ACTIVATE—LOGICAL UNIT NOT ACTIVE. Activation of the communication session failed, because the requested logical unit was not active or not enabled. SNA SENSE of X'0809' might indicate that the LUNAME is incorrect in the PSF PRINTDEV and is unknown to VTAM. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE.
- ACTIVATE—PATH ERROR. Activation of the communication session failed, because of a physical problem in the network path. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE.
- ACTIVATE—VTAMHALT. Activation of the communication session failed, because the ACF/VTAM operator issued a HALT command or a VARY NET, INACT, I, or F for PSF. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE.

- ACTIVATE—ACB INACTIVE. Activation of the communication session failed, because the ACB is being closed. This might be because a VARY NET,INACT was issued for the application. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE.
- ACTIVATE—MODENAME. Activation of the communication session failed, because the mode name used to start PSF is not valid. The Logmode specified in the Printer Inventory or the LOGMODE specified in the PSF PRINTDEV was not found in the logon mode table for the LUNAME specified on the PSF PRINTDEV data statement. If Logmode was not specified in the Printer Inventory or LOGMODE was not specified on the PRINTDEV statement, the DLOGMODE that was specified in the LU statement in the VTAM network definition was not found in the logon mode table. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE.
- ACTIVATE—LUNAME. Activation of the communication session failed, because the LU name in the Printer Inventory or the LUNAME specified in the JCL procedure used to start PSF is not valid. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE.
- ACTIVATE—NOT AUTHORIZED. Activation of the communication session failed, because the application program name specified was not authorized to acquire the logical unit. This might be a network definition problem. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE.
- ACTIVATE—PERMANENTLY NOT AVAIL. Activation of the communication session activation failed, because the logical unit or a required resource is permanently unavailable. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE.
- ACTIVATE—SESSION PARM INCORRECT. Activation of the communication session failed, because the session parameters specified by Logmode in the Printer Inventory or by LOGMODE in the PSF PRINTDEV were incorrect for PSF or were rejected by the printer. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information

associated with the reason for the failure of session activation is given in SNA SENSE.
- ACTIVATE—NEGOTIATION. Activation of the communication session failed, because the negotiated session parameters were unacceptable to the host communications code.
- ACTIVATE—DEACTIVATE. Activation of the communication session failed, because PSF requested deactivation before the activation was complete. This condition represents a logic error in PSF.
- ACTIVATE—ABORT. Activation of the communication session failed because VTAM or communications management detected session-outage conditions during the activation, or SNA sense data indicated that the activation could not be completed for a reason that did not fit into the other categories. The RTNCD-FDBK2 from the VTAM OPNDST or SIMLOGON RPL is given by VTAM CODE. Any SNA sense code information associated with the reason for the failure of session activation is given in SNA SENSE.

System action: The PSF FSA is ended. This message is issued because of conditions that cannot be retried or because the retry limit has been reached. For most of the causes in the Explanation section, PSF follows the Failure action specified in the Printer Inventory or the FAILURE action specified on the PRINTDEV statement in the JCL procedure used to start PSF. However, PSF always ends for these causes:
- ACTIVATE—ACB INACTIVE
- ACTIVATE—SESSPARM
- ACTIVATE—NOTAVAIL
- ACTIVATE—LUNAME
- ACTIVATE—MODENAME
- ACTIVATE—NEGOTIATION
- ACTIVATE—NOT AUTHORIZED
- APPLID PROBLEM
- ACTIVATE—VTAMHALT
- NO VTAM

User response: No response is necessary.

System programmer response: If the problem was caused by an incorrect network specification, incorrect vlaues in the Printer Inventory, or an incorrect PSF PRINTDEV statement, correct the incorrect items. If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

If the procedure used to start PSF is changed (such as for APPLID PROBLEM, ACTIVATE—MODENAME, or ACTIVATE—LUNAME), the PSF FSS must be restarted to use the changed PRINTDEV statements. If options are changed in the Printer Inventory, only the FSA for which options are changed must be restarted to use the new options.

Operator Response: If the CAUSE does not explain why the communication session with the printer was ended, notify your system programmer of this error. If

CAUSE, VTAM CODE, or SNA SENSE explain why communication with the printer ended, fix the problem and restart the PSF FSA.

Problem determination: Items 1, 17, 19.

APS923I   COMMUNICATION WITH SNA-ATTACHED PRINTER (*prtnnnn*) LUNAME (*luname*) WAS TERMINATED DUE TO CONDITION (*condition*).

Explanation: The printer detected a device-inoperative condition and timed out before the printer operator could clear the condition. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement. LUNAME (*luname*) specifies the SNA logical unit name of the SNA-attached printer. CONDITION can be one of these:
- Data-related print error.
- Developer mix needs changing.
- Fine filter needs changing.
- Finishing mechanism exception.
- Fuser oil supply empty.
- Fuser requires corrective action.
- Image generator error.
- Improper media specified.
- Oiler felt needs changing.
- Out of paper (cassette) or no cassette.
- Out of paper (in primary bin), or bin cover open.
- Out of staples.
- Output bin full.
- Paper jam.
- Paper specification check.
- Permanent hardware error.
- Post processor attempted-off page printing.
- Post processing has discarded pages.
- Post processor not ready.
- Printer not ready—open door.
- Punch waste bin full.
- Staple jam.
- Suppressed jam recovery.
- Toner collector full.
- Toner supply empty.
- Too many sheets for a finishing operation.
- Transport requires corrective action.

System action: Communication with the SNA-attached printer is ended. PSF follows the FAILURE action specified on the PRINTDEV statement in the JCL procedure used to start PSF.

For permanent hardware errors, PSF does not follow the Failure action specified in the Printer Inventory or the FAILURE action. In this case PSF stops the printer. A permanent hardware error should be corrected before PSF is restarted.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Consult the person responsible for the remote printer.

Problem determination: Items 1, 17, 19.

APS924I   COMMUNICATION WITH SNA-ATTACHED PRINTER (*prtnnnn*) LUNAME (*luname*) WAS TERMINATED DUE TO A DISCONNECT INTERVAL TIMEOUT.

Explanation: Communication with PRINTER (*prtnnnn*) was ended because the printer had nothing to print for the amount of time specified by the Disconnect interval parameter in the Printer Inventory or the DISCINTV parameter on the PRINTDEV statement specified for this printer. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer. LUNAME (*luname*) specifies the SNA logical unit name of the SNA-attached printer.

System action: Communication with the SNA-attached printer is ended. PSF follows the Disconnect action in the Printer Inventory or the TIMEOUT action specified on the PRINTDEV statement in the JCL procedure used to start PSF.

User response: No response is necessary.

System programmer response: If this message displays frequently for an SNA-attached printer not shared by multiple host systems, consider increasing the amount of time specified in the Disconnect interval in the Printer Inventory or the DISCINTV parameter on the PRINTDEV statement in the procedure used to start PSF. For information on how to specify Printer Inventory options or a PRINTDEV statement, refer to *PSF for z/OS: Customization*.

Operator Response: If this message displays frequently for an SNA-attached printer that is not shared by multiple host systems, notify your system programmer.

Problem determination: Items 1, 17, 19.

APS925I   SESSION ACTIVATION WITH SNA-ATTACHED PRINTER (*prtnnnn*) LUNAME (*luname*) IS BEING RETRIED BECAUSE OF A PREVIOUSLY DETECTED RETRIABLE CONDITION (*condition*) VTAM CODE ('*nnnn*'X) SNA SENSE ('*mmmm*'X).

Explanation: Communication with PRINTER (*prtnnnn*) was ended for the reason specified by CONDITION (*condition*). The condition is RETRIABLE, and session activation has just been retried. A VTAM CODE ('*nnnn*'X) and SNA SENSE ('*mmmm*'X) have been provided. For reference to the condition and VTAM code in the error message, refer to *Advanced Function Communication Function for VTAM, Version 2, Programming* or the appropriate version of VTAM. For reference to the SNA sense in the error message, refer to *Systems Network Architecture Formats*, GA27-3136.

CONDITION can be one of these:

- PPCC—Allocerr TPRETRY
- PPCC—Sessrtry DEVERR
- PPCC—Sessrtry LOSTERM
- PPCC—Sessrtry NETERR
- PPCC—Sessrtrt UNBIND
- ACTIVATE—LUBUSY
- ACTIVATE—LOGICAL UNIT NOT ACTIVE
- ACTIVATE—PATH ERROR
- ACTIVATE—ABORT
- ACTIVATE—DEACT

Special Note

See Message APS922I for a description of these conditions.

System action: Session activation has been retried, and PSF is waiting for the activation to complete.

User response: No response is necessary.

System programmer response: For the condition ACTIVATE—LOGICAL UNIT NOT ACTIVE, if the LU is not active because it does not exist, add LUNAME to the network definition.

Operator Response: In some cases, the activation completes without operator intervention. However, if the printer does not appear to be initializing (that is, a JES $DU command shows the printer STARTING), the operator might have to intervene.

For the condition ACTIVATE—LOGICAL UNIT BUSY, the LUNAME is not available and might be in use by another invocation of PSF. Ensure that the LUNAME is available for this printer.

For the condition ACTIVATE—LOGICAL UNIT NOT ACTIVE, the LUNAME must be varied active by issuing a VTAM 'VARY NET,ACT' command.

For all conditions, it might be necessary to take action at the printer.
- Reset the printer by turning the power switch off and then on.
- If using a switched line, reestablish the connection by redialing the host.

Problem determination: Items 1, 17, 19.

APS926I   **NO RESPONSE NOTIFY FAILED FOR** *prtnnnn***, RETURN CODE=** *rc***.**

Explanation: No response action = Notify was specified in the Printer Inventory or NORESP=NOTIFY was specified on the PRINTDEV statement for printer *prtnnnn*. When a no response timeout occurred for this printer, the notify was attempted but failed with the return code indicated.

System action: The notify messages are sent to the system operator.

User response: No response is necessary.

System programmer response: Correct the Printer Inventory or the PRINTDEV statement for printer *prtnnnn*.

Operator Response: Notify your system programmer that this message was received.

Problem determination: Items 1, 17, 24.

APS927I   *mechanism name* **IS DISABLED ON PRINTER** *prtnnn***.**

Explanation: The mechanism listed in the message has been disabled on printer *prtnnn*.

System action: This message is issued during PSF initialization.

User response: No response is necessary.

System programmer response: If the mechanism indicated in the message is not disabled in the printer, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Either allow the printer to start, which causes PSF to avoid the selection of the disabled mechanism, or cancel the PSF writer processor. If the mechanism indicated in the message is not disabled in the printer, notify your system programmer.

Problem determination: Items 1, 17, 27.

APS928I   **THE PAGE PRINTER COMMUNICATION COMPONENT HAS ABENDED, PPCC ABEND REASON CODE '***nnnnnnnn***'X, SNA SENSE ('***mmmmmmmm***'X).**

Explanation: The Page Printer Communications Component has abended. PSF has detected a PPCC abend reason code '*nnnnnnnn*'X with accompanying SNA SENSE ('*mmmmmmmm*'X).

System action: The PSF FSA is ended. An ESTAE routine takes an SVC dump for some PPCC abends. A subsequent message indicates whether an SVC dump is available.

User response: No response is necessary.

System programmer response: Examine the PPCC abend reason code and SNA sense value (if nonzero) to determine the appropriate response. For an explanation of the PPCC abend reason code, see Chapter 2, "System Completion Codes and PSF Abend Reason Codes," on page 451.

Operator Response: Notify your system programmer of this error.

Problem determination: Items 1, 9, 17, 19.

**APS929I   COMMUNICATION WITH
TCP/IP-ATTACHED PRINTER (*prtnnnn*)
IPADDR (*ip-address*) WAS TERMINATED
DUE TO A DISCONNECT INTERVAL
TIMEOUT.**

Explanation: Communication with PRINTER (*prtnnnn*)
was ended because the printer had nothing to print for
the amount of time specified by the Disconnect interval
in the Printer Inventory or the DISCINTV parameter on
the PRINTDEV statement specified for the printer.
PRINTER(*prtnnnn*) specifies the name of the
PRINTDEV statement defining this printer.
IPADDR(*ip-address*) specifies the Internet Protocol (IP)
address of the TCP/IP-attached printer.

System action: Communication with the
TCP/IP-attached printer is ended. PSF follows the
Disconnect action in the Printer Inventory or the
TIMEOUT action specified on the PRINTDEV statement
in the JCL procedure used to start PSF.

User response: If this message displays frequently for
a TCP/IP-attached printer that is not shared by multiple
host systems, notify your system programmer.

System programmer response: If this message
displays frequently for a TCP/IP-attached printer that is
not shared by multiple host systems, consider
increasing the amount of time specified in the
Disconnect interval in the Printer Inventory or the
DISCINTV parameter on the PRINTDEV statement in
the procedure used to start PSF. For information on how
to code a PRINTDEV statement, refer to *PSF for z/OS:
Customization*.

Operator Response: If this message is displayed
frequently for a TCP/IP-attached printer that is not
shared by multiple host systems, notify your system
programmer.

Problem determination: Items 1, 17, 19.

**APS930I   PRINTER *prtnnnn*, SPECIFIED AN
INCORRECT OUTPUT BIN ID RANGE
OF *first bin ID – last bin ID*.**

Explanation: During the processing of the OPC
response, an incorrect output bin range was detected.
An incorrect output bin range means that the last ID in
the range is incorrectly less than the first ID in the
range.

System action: This message is issued during PSF
initialization, and the incorrect output bin range is
ignored. PSF initialization continues.

User response: No response is necessary.

System programmer response: This indicates a
possible logic error in the microcode of the printer.
Consult your microcode service representative in the
IBM Support Center for assistance.

Operator Response: PSF initialization continues

without operator assistance. Some output bins on the
printer might not be available for use. You might have to
re-enable the bins or perform a power-on-reset.

Problem determination: Items 1, 18.

**APS932I   AN UNEXPECTED COMMUNICATION
FAILURE OCCURRED DURING THE
PRINTING OF THIS JOB. THE JOB
WILL BE RESTARTED AT A PREVIOUS
CHECKPOINT, AND PAGES MAY BE
DUPLICATED.**

Explanation: PSF detected an unexpected failure in
communication with the printer; for instance, the session
was lost during page processing. Some pages might
have printed, of which PSF was not informed. When
TCP/IP attached to the printer, this message could be
caused by TCP/IP being recycled.

System action: The data set being processed at the
time of the error is restarted from the most recent
checkpoint before the interrupt.

User response: Examine your output for duplicate
pages.

System programmer response: No response is
necessary.

Operator Response: To determine an appropriate
response, see the specific error conditions described in
any accompanying console message.

Problem determination: Items 1, 25, 26, 27.

**APS933I   PRINTER INFORMATION, DEV= *pppp*,
ECLEVEL= *eeeeeeeee*, ADDR= *cuu*|
luname, SYSNAME= *ssssssss*, CPUID=
cccccccccccc, ATTACH=
psf|*dpf*|*psfdirect*|*wpm*.**

Explanation: A printer information message was
issued, where these describe the printer:
*   *pppp* is the printer device type—for example, 3900 or
    3816.
*   *eeeeeeeee* is the engineering change level of the
    printer. If this field is not sent by the printer in the
    OPC (Obtain Printer Characteristics) response, then
    ECLEVEL=UNKNOWN is placed in the message.
*   *cuu* is the three- or four-digit device number of the
    channel-attached printer, or *luname* specifies the
    SNA logical unit name of the SNA-attached printer.
*   *ssssssss* is the system name for the current system.
    cccccccccccc is the CPU ID, which also contains the
    serial number.
*   ATTACH indicates whether the printer is attached by
    Print Services Facility (PSF), InfoPrint Manager for
    Windows Distributed Print Function (DPF), PSF
    Direct (PSFDIRECT), or Workstation Print Manager
    (WPM).

System action: This message is issued only to the

operator console. PSF continues processing.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Ensure that the correct printer device type was started and attached correctly (CUU or LUNAME, and PSF, DPF, or PSFDIRECT).

Problem determination: None.

APS934I	**COMMUNICATION WITH**
	TCP/IP-ATTACHED PRINTER (*prtnnnn***)**
	IP ADDRESS (*ip-address***) WAS ENDED,**
	CAUSE (*reason***) TCP/IP ERRNO =** *errno***.**

Explanation: A network or printer error occurred, causing communication with the printer to end. The TCP/IP session with the printer cannot be established, for one of these reasons:

- The error condition cannot be retried.
- The Printer Inventory specified Failure action = Stop or the PSF PRINTDEV specified FAILURE=STOP.
- Connect interval (CONNINTV) timer expired.

The APS934I message is issued from the PSF ESTAE and does not have complete information if the error is a network error or printer communication error. In some cases APS935I precedes APS934I and has more detailed CAUSE information. If the APS935I message is issued, always use APS935I to determine the cause.

If PSF retried the error, you have received corresponding APS935I messages.

TCP/IP ERRNO=*errno* indicates the TCP/IP error. To interpret the ERRNO, refer to *z/OS Communications Server: IP and SNA Codes*.

Common ERRNOs associated with this message are:

49 Can't reach destination, indicating a bad IP address.

60 Printer might be powered off.

61 Connection was refused. This might happen when the printer is in the process of accepting a connection with another partner and refuses other connections while completing the current request. It also might happen when the IP address is valid but the target system is not a printer or host that has the IBM printer layer code. This could also happen when the port number (PORTNO) at the host and printer do not match.

PRINTER(*prtnnnn*) specifies the name of the PRINTDEV statement. IP ADDRESS(*ip-address*) specifies the Internet Protocol (IP) address of the TCP/IP-attached printer. CAUSE can be any of these:

- SOCKET CONNECT FAILED—PSF failed to establish a socket connection with the printer. PSF displays this reason when:
  - The printer is powered off.
  - If the printer is attached with an i-data 7913 IPDS printer LAN Attachment, either the printer or the i-data 7913 IPDS Printer LAN Attachment is not powered on.
  - The wrong IP address is specified in the Printer Inventory or in the PRINTDEV statement.
  - The printer is not physically attached.
  - The IP address specified is a duplicate of another IP address on the network.
  - The port number (PORTNO) at the host and printer do not match.
- OPEN SESSION FAILED—PSF failed to establish a session with the printer because of either a timeout waiting for a reply from the printer or a communication error. PSF displays this reason when:
  - The target system is not executing the IBM printer layer code.
  - The printer is being used by another PSF FSA on the same host.
- PRINTER ASSIGN FAILED—The host request to assign the printer failed. The printer can be reached, but it did not accept the assignment request.
- PRINTER ASSIGNED ELSEWHERE—The printer (*prtnnnn*) at IP address (*ip-address*) is being used by another host application. Only one task such as PSF can communicate with the printer at any given time.
- PRINTER ASSIGN TIMEOUT—The printer did not reply to a host request for assignment of an IPDS conversation.
- INCORRECT MESSAGE VERSION—This cause indicates an incompatibility between PSF and the printer. If the communication failure occurs with a printer supported by PSF, notify your system programmer of this error.
- NONACK RETRY—Communication with the printer was ended, but there is a RETRY condition. PSF tries to reestablish communication with the printer.
- NONACK NORETRY—Communication with the printer was ended. PSF displays this reason when:
  - The printer has a hardware failure.
  - The connection with the printer is lost.
  - An unknown communication failure occurs.
- NONACK COMMERR—PSF lost communication with the printer because of either a timeout waiting on a reply from the printer or a communication error. PSF displays this reason when the physical connection with the printer is lost.

System action: The PSF FSA ends because the condition cannot be retried or the connect interval (CONNINTV) timer has expired.

User response: No response is necessary.

System programmer response: If the problem was caused by incorrect values in the Printer Inventory or an incorrect network specification or an incorrect PSF PRINTDEV statement, correct the incorrect items. If a communications-attachment failure occurred, use the PING command with the IP address in the message to ensure that the printer's TCP/IP socket connection to this address is active. For information on how to ping an IP address, refer to *PSF for z/OS: Customization*.

If this printer is being shared by another host print application or by another PSF, refer to information about sharing a printer in *PSF for z/OS: Customization*.

If you changed a PRINTDEV parameter on the PSF startup procedure, such as the IP address, the PSF FSS must be restarted in order to use the changes. If you changed a parameter in the Printer Inventory, the PSF FSA must be restarted to use the changes.1

If the error condition persists, follow the procedures described in *PSF for z/OS: Customization* before consulting the IBM Support Center.

Operator Response: If CAUSE and ERRNO explain why communication with the printer ended, fix the problem and restart the PSF FSA. If the CAUSE does not explain why the communication session with the printer was ended, notify your system programmer of this error.

Problem determination: Items, 1, 17, 19.

| APS935I | **CONNECTION WITH TCP/IP-ATTACHED PRINTER (*prtnnnn*) IPADDR (*ip-address*) IS BEING TRIED AGAIN BECAUSE OF A PREVIOUSLY DETECTED RETRIABLE CONDITION (*reason*), TCP/IP ERRNO =** *errno***.** |

Explanation: Communication with the printer was ended for a condition that can be tried again. PSF has just tried to establish the session again.

TCP/IP ERRNO=*errno* indicates the TCP/IP error. To interpret the *errno*, refer to *z/OS Communications Server: IP and SNA Codes*.

Common ERRNOs associated with this message are:

0 See the previous message for a description of the problem.

49 Can't reach destination, indicating a bad IP address.

60 Printer might be powered off.

61 Connection was refused. This might happen when the printer is in the process of accepting a connection with another partner and refuses other connections while completing the current request. It also might happen when the IP address is valid but the target system is not a printer or host that has the IBM printer layer

code. This could also happen when the port number (PORTNO) at the host and printer do not match.

PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement. IPADDR (*ip-address*) specifies the Internet Protocol (IP) address of the TCP/IP-attached printer. CONDITION can be any of these:

- SOCKET FAILED—PSF was not able to get a socket on the z/OS operating system.
- SOCKET CONNECT FAILED—PSF failed to establish a socket connection with the printer. PSF displays this reason when:
  - The printer is powered off.
  - If the printer is attached with an i-data 7913 IPDS printer LAN Attachment, either the printer or the i-data 7913 IPDS Printer LAN Attachment is not powered on.
  - The wrong IP address is specified in the Printer Inventory or in the PRINTDEV statement.
  - The printer is not physically attached.
  - The IP address specified is a duplicate of another IP address on the network.
  - The port number (PORTNO) at the host and printer do not match.
- IOCTL FAILED—The socket connection requires a non-blocking socket but the call to make the socket non-blocking failed.
- SETSOCKOPT FAILED—The call to set the KEEPALIVE option on for the socket connect failed.
- OPEN SESSION FAILED—PSF failed to establish a session with the printer because of either a timeout waiting for a reply from the printer or a communication error. PSF displays this reason when:
  - The target system is not executing the IBM printer layer code.
  - The printer is being used by another PSF FSA on the same host.
- PRINTER ASSIGN FAILED—The host request to assign the printer failed. The printer can be reached, but it did not accept the assignment request.
- PRINTER ASSIGNED ELSEWHERE—The printer (*prtnnnn*) at IP address (*ip-address*) is being used by another host application. Only one task such as PSF can communicate with the printer at any given time.
- PRINTER ASSIGN TIMEOUT—The printer did not reply to a host request for assignment of an IPDS conversation.
- NONACK RETRY—Communication with the printer was ended.
- NONACK COMMERR—PSF has lost communications with the printer because of either a timeout waiting for a reply from the printer or a communication error. PSF displays this message

when the printer was attached but for some reason the connection is severed through a hardware or software problem.

System action: Start of the session has been retried, and PSF waits for the activation to complete. If Failure action = Wait for connect in the Printer Inventory or FAILURE=WCONNECT was specified on the PRINTDEV statement in the PSF startup procedure, PSF attempts to restart the session continuously, issuing the APS935I message only when the ERRNO or REASON code changes between attempts.

User response: No response is necessary.

System programmer response: If the problem was caused by an incorrect network specification, incorrect values in the Printer Inventory, or an incorrect PSF PRINTDEV statement, correct the incorrect items.

If a communication-attachment failure occurred, use the PING command with the IP address in the message to ensure that this printer's TCP/IP socket connection to this address is active. For information on how to ping an IP address, refer to *PSF for z/OS: Customization*.

If this printer is being shared by another host print application or by another PSF, refer to information about sharing printers in *PSF for z/OS: Customization*.

Operator Response: If CONDITION and ERRNO explain why communication with the printer ended, fix the problem and restart the PSF FSA. If the CONDITION does not explain why the communication session with the printer ended, notify your system programmer of this error.

If the printer does not respond to PSF, you can stop the printer FSA by use of the MODIFY command:
MODIFY *FSSname*,FORCE, *printer-name*

Problem determination: Items 1, 25, 26, 27.

APS936I   COMMUNICATION WITH SNA-ATTACHED PRINTER *prtnnnn* **LUNAME** *luname* **WAS TERMINATED DUE TO A RELEASE REQUEST FROM VTAM.**

Explanation: Communication with PRINTER (*prtnnnn*) was ended after VTAM indicated that another print driver had queued a session request for the printer and the release interval (RELINTV) had expired. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer. LUNAME (*luname*) specifies the SNA logical unit name of the SNA-attached printer.

System action: Communication with the SNA-attached printer is ended. PSF attempts to restart the session with the printer according to the management mode specified in the Printer Inventory or on the PRINTEDEV statement (MGMTMODE)..

User response: No response is necessary.

System programmer response: If this message displays too frequently, consider increasing the amount of time specified in the Release interval in the Printer Inventory or the RELINTV parameter on the PRINTDEV statement in the procedure used to start PSF. For information on printer sharing, refer to *PSF for z/OS: Customization*.

Operator Response: If this message displays frequently, notify your system programmer.

Problem determination: Items 1, 17, 19.

APS937I   IPDS DIALOG WITH PRINTER *prtnnnn* **WAS ENDED DUE TO A RELEASE REQUEST FROM THE PRINTER.**

Explanation: The IPDS dialog with PRINTER (*prtnnnn*) was ended after a release request (NACK) was received from the printer and the release interval (RELINTV) expired. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer.

System action: Communication with the printer is suspended temporarily. PSF attempts to restart the dialog with the printer according to the release mode specified in the Printer Inventory or on the PRINTDEV statement. When the release mode is IDLE, the dialog is restarted when another data set for the printer is on the JES spool. When the release mode is TIME, the dialog is restarted after the acquire interval (ACQINTV) expires.

User response: No response is necessary.

System programmer response: If this message displays too frequently, consider increasing the amount of time specified for the release interval in the Printer Inventory or on the PRINTDEV statement. For information on printer sharing, refer to *PSF for z/OS: Customization*.

Operator Response: If this message occurs frequently, consult your system programmer.

Problem determination: Items 1, 17, 19.

APS938I   IPDS DIALOG WITH PRINTER *prtnnnn* **WAS RESTARTED.**

Explanation: The IPDS dialog with PRINTER (*prtnnnn*) had been suspended and is now restarted. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer.

System action: Communication with the printer continues.

User response: No response is necessary.

System programmer response: No response is necessary. For information on printer sharing, refer to *PSF for z/OS: Customization*.

Operator Response: No response is necessary.

APS939I   STARTUP OF COMMUNICATION WITH PRINTER *prtnnnn* **WAS ABORTED DUE TO A CONNECT INTERVAL TIMEOUT.**

Explanation: PSF attempted to start a session or dialog with the printer for the period of time specified by the connect interval (CONNINTV). The printer was busy or unavailable for this period of time. PRINTER (*prtnnnn*) specifies the name of the PRINTDEV statement defining this printer.

System action: The PSF FSA for the printer is stopped.

User response: No response is necessary.

System programmer response: If this message displays too frequently, consider increasing the amount of time specified in the Connect interval in the Printer Inventory or CONNINTV parameter on the PRINTDEV statement in the procedure used to start PSF.

Operator Response: If this message displays frequently, notify your system programmer.

Problem determination: Items 1, 17, 19.

APS940I   REQUIRED RESPONSE NOT RECEIVED FROM *prtnnnn***.**

Explanation: The time specified by the Response timeout in the Printer Inventory or the PRINTDEV RESPTIME keyword for printer *prtnnnn* expired before PSF received a response from the printer.

System action: The action specified by the No response action in the Printer Inventory or the NORESP keyword on the PRINTDEV statement is taken.

User response: Have the person responsible for the printer check the printer to determine why it is not responding to PSF and correct the condition.

System programmer response: Have the person responsible for the printer check the printer to determine why it is not responding to PSF and correct the condition.

Operator Response: Have the person responsible for the printer check the printer to determine why it is not responding to PSF and correct the condition.

Problem determination: Items 8, 12, 13, 19.

APS941I   MISSING RESPONSE RECEIVED FROM *prtnnnn***.**

Explanation: This message follows APS940I and indicates that the problem is corrected and the printer is now responding to PSF.

System action: None.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS942I   AUTOMATIC RESOLUTION MODE NOT SUPPORTED WHEN ATTACHED TO EITHER DPF OR RPM3. SWITCH THE PRINTER OUT OF AUTOMATIC RESOLUTION MODE.

Explanation: PSF is connected to the printer with an intermediate device of either DPF or RPM3, and the printer is in automatic resolution mode. This configuration is not supported.

System action: The PSF FSA for the printer is stopped with an abend 024 and abend reason code 0243.

User response: No response is necessary.

System programmer response: Switch the printer out of automatic resolution mode.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 18.

APS943I   PSF WAS UNABLE TO COMPLETE CHANNEL INITIALIZATION. THE REGION SIZE IS PROBABLY TOO SMALL.

Explanation: Additional storage was required to complete channel initialization, but this storage was not available. This message is followed by PSF message APS050I.

System action: PSF processing ends abnormally with an abend 024 and abend reason code 0201.

User response: No response is necessary.

System programmer response: Increase the Region Parameter on the startup procedure.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS944I   THE *data type* **DATA SET MUST BE A PDSE. THE** *data type* **REPORT WILL NOT BE CREATED.**

Explanation: The *data type* data set, where *data type* is PRTINFO or AFPSTATS, was not allocated as a PDSE; therefore, PSF will not create the PRTINFO or AFPSTATS report. The PRTINFO or AFPSTATS data set must be a partitioned data set allocated as a PDSE to reduce problems with insufficient directory blocks and storage space and to allow multiple FSAs to open the data set without a system abend.

System action: PSF continues processing but does

not create the PRTINFO or AFPSTATS report.

User response: Inform your system programmer that this error occurred.

System programmer response: Allocate the PRTINFO or AFPSTATS data set as a PDSE.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS946I   THE IPADDR (*ip_address*) SPECIFIED IN THE PRINTDEV OR IN THE PRINTER INVENTORY COULD NOT BE RESOLVED.

Explanation: If a dotted decimal address was provided, it was not in the correct format or was not valid. If a host name was provided, it could not be resolved by TCP/IP.

System action: The PSF FSA ends.

User response: Inform your system programmer that this error occurred.

System programmer response: If a dotted decimal address was provided, correct the error.

If an installation exit written in the C language is being used, each FSA runs as a new "Process". Verify that the SYS1.PARMLIB member BPXPRMxx values for MAXPROCSYS and MAXPROCUSER are large enough for each PSF FSA and the FSS to have a PROC. The operator command "D OMVS, O" displays the current values for these configuration parameters.

If a valid host name was provided, contact your TCP/IP administrator. PSF uses the same name resolver as the TSO LPR command.

Operator Response: Notify your system programmer.

Problem determination: Item 1.

APS947I   COMMUNICATION WITH TCP/IP-ATTACHED PRINTER (*prtnnnn*) WAS TERMINATED DUE TO A PRINTER CONDITION FROM WHICH THE PRINTER COULD NOT RECOVER.

Explanation: A printer condition has occurred from which the printer cannot recover.

System action: The PSF FSA stops processing.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Notify the person responsible for the remote printer. This printer condition should be corrected before PSF is restarted.

Problem determination: Items 1, 18.

APS948I   INITAPI FAILED FOR TCP/IP ADDRESS SPACE NAME OF (*tcpip_name*) FOR REASON (*reason*).

Explanation: PSF detected that it had not issued a successful INITAPI request using the tcpip_name given. *Reason* might be: NO TCP/IP—The FSS was not able to find the TCP/IP module EZASOK03.

System action: The PSF FSA ends.

User response: No response is necessary.

System programmer response: Ensure that TCP/IP was installed in a library that is loadable by PSF.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 4, 5, 9, 17.

APS949I   INITAPI FAILED FOR TCP/IP ADDRESS SPACE NAME OF (*tcpip_name*) WITH A RETURN CODE OF (*nnnn*) AND AN ERRNO = *errno*.

Explanation: The INITAPI call to TCP/IP failed. RETURN CODE has the return code from the call, and ERRNO has the TCP/IP error number. The *tcpip_name* has the TCP/IP address space name, either the default name, TCPIP, or the name specified as a parameter on the EXEC statement.

System action: The PSF FSA ends.

User response: No response is necessary.

System programmer response: Verify that *tcpip_name* is the TCP/IP address space name. This is the TCP/IP started task name that is in the TCP/IP profile data set with the TCPIPJOBNAME keyword. Unless the TCP/IP address space name is specified on the EXEC statement in the PSF startup procedure, then PSF uses the default name, TCPIP. Check the ERRNO value in *z/OS Communications Server: IP and SNA Codes*.

Operator Response: Verify that the TCP/IP procedure with the *tcp_ip* name was started. If the TCP/IP task has not been started, you must cancel the writer procedure; then start the TCP/IP task and restart the printer.

Problem determination: None.

APS950I   EXIT PUT PROCESSING TERMINATED.

Explanation: The Document Processor subcomponent of PSF detected an error while the installation exit routine, APSUPUT, had control. This message might have been issued because of an I/O error.

System action: A separator page might be incomplete.

User response: No response is necessary.

System programmer response: Examine the

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installation exit processing routine in control to see whether it contains an incorrect APSUPUT record.

Operator Response: If no I/O error occurred before this message, notify your system programmer.

Problem determination: Items 1, 3, 19, 26.

APS951I　　**SEPARATOR PAGES WILL NOT BE GENERATED AND PSF INSTALLATION EXITS WILL NOT BE INVOKED.**

Explanation: Initialization of the PSF installation exit routine failed, for one of these reasons:

- An insufficient length was specified in the APSUCOM table.
- The APSUCOM module could not be found.
- A BLDL macro or a LOAD macro failed.

System action: Processing continues without installation exits.

User response: No response is necessary.

System programmer response: Evaluate any changes made to the APSUCOM module (static table), to the exit processor routines, or to the methods used to establish the table or routines in the system. Other messages might contain BLDL macro or LOAD macro return and reason codes.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS952I　　**BLDL FAILURE DURING INSTALLATION EXIT INITIALIZATION, BLDL RETURN CODE** *return code*, **BLDL REASON CODE** *reason code*.

Explanation: While PSF was finding the installation exit processing modules, the BLDL macro failed.

System action: Processing continues without installation exits. Processing of separator pages is suspended.

User response: No response is necessary.

System programmer response: Evaluate the BLDL macro return codes and reason codes to determine the cause of this failure. For more information, refer to *z/OS DFSMS Macro Instructions for Data Sets*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS953I　　**FAILURE DURING LOAD OF** *exit routine*, **SYSTEM COMPLETION CODE** *system completion code*, **SYSTEM REASON CODE** *system reason code*.

Explanation: When attempting to LOAD an installation exit routine, the LOAD macro failed.

System action: PSF does not initialize.

User response: No response is necessary.

System programmer response: Use the system completion code and system reason code issued by the LOAD SVC to determine an appropriate response. To interpret the completion code and reason code, refer to *z/OS MVS System Codes*. Also refer to *z/OS MVS Diagnosis: Tools and Service Aids* for a description of the LOAD macro.

After resolving the problem, restart the printer.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS954I　　**TERMINATION OF THIS DATA SET WAS REQUESTED BY THE RESOURCE EXIT.** *(optional text)*.

Explanation: The Resource Exit requested ending the data set. Optional text might also be provided.

System action: PSF stops processing the data set.

User response: No response is necessary.

System programmer response: You might use the Resource Exit to insert data into the *optional text* field of the message, to provide a more detailed explanation for the user as to why this ending occurred. For more information on how to provide optional message text, refer to *PSF for z/OS: Customization*.

Operator Response: No response is necessary.

Problem determination: None.

APS955I　　**BLDL FAILURE DURING INSTALLATION EXIT INITIALIZATION, BLDL RETURN CODE** *return code*, **BLDL REASON CODE** *reason code*.

Explanation: During address space initialization, the BLDL macro failed while locating the installation exit processing modules.

System action: PSF tries to load the exits again when the printer is started. Because the exits could not be found, PSF uses these assumptions:

- The exits run in 31-bit addressing mode (AMODE 31). PSF obtains the exit data areas above the 16MB line.
- There are no C exits. PSF does not call BPX1SDD to have all subtasks dubbed as new processes. Processing continues without the installation exits that are written in C.

User response: No response is necessary.

System programmer response: Evaluate the BLDL

macro return codes and reason codes to determine the cause of this failure. For more information, refer to *z/OS DFSMS Macro Instructions for Data Sets*.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS956I   24-BIT ADDRESSING CANNOT BE USED BY THE INSTALLATION EXIT *exit routine* **AT THIS TIME. THE EXIT WILL NOT BE INVOKED.**

Explanation: At address space initialization, PSF determined that all of the exits ran in 31-bit addressing mode (AMODE 31). The addressing mode might not be changed to 24-bit (AMODE 24) without stopping all the printers in the address space, canceling the PSF address space, and restarting the printers. This problem might be caused in two ways:

- All of the exits ran in AMODE 31. At least one exit was added or was changed to AMODE 24 without canceling the PSF address space.
- During address space initialization, PSF was unable to load one or more of the installation exits because of a BLDL error. PSF assumed that the exits ran in AMODE 31. When a printer was started, PSF loaded this exit, which was AMODE 24.

System action: Processing continues without this exit.

User response: No response is necessary.

System programmer response: In order to use the exit, perform these steps:
- Stop all printers in the address space.
- Cancel the PSF address space.
- Restart the printers.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS957I   FAILURE DURING LOAD OF *exit routine*, **SYSTEM COMPLETION CODE** *system completion code*, **SYSTEM REASON CODE** *system reason code*.

Explanation: When attempting to LOAD an installation exit routine, the LOAD macro failed.

System action: The PSF address space does not initialize.

User response: No response is necessary.

System programmer response: To determine an appropriate response, use the system completion code and the system reason code issued by the LOAD SVC routine. To interpret the completion code and reason code, refer to *z/OS MVS System Codes*. Also refer to *z/OS MVS Diagnosis: Tools and Service Aids* for a

description of the LOAD macro. After resolving the problem, restart the printer.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS958I   PSF INSTALLATION EXITS WILL NOT BE INVOKED.

Explanation: The initialization of the PSF installation exit routine failed, for one of these reasons:
- Insufficient length was specified in the APSUCOM table.
- The APSUCOM module could not be found.
- A BLDL macro failed.

System action: Processing continues without installation exits.

User response: No response is necessary.

System programmer response: Evaluate any changes made to the APSUCOM module (static table), to the exit routines, or to the methods used to establish the tables or routines in the system. Other messages might contain BLDL macro return and reason codes.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS959I   SEPARATOR PAGES WILL NOT BE GENERATED. INSTALLATION EXIT *exit routine* **IS NOT AVAILABLE.**

Explanation: Initialization of the PSF installation exit routine failed because the APSUBTBL module could not be found.

System action: Processing continues without this installation exit.

User response: No response is necessary.

System programmer response: To use the installation exit, perform these steps:
- Stop all printers in the address space.
- Cancel the PSF address space.
- Add load module APSUBTBL to the linklib.
- Restart the printers.

Operator Response: Notify your system programmer of this error.

Problem determination: Items 1, 3.

APS960I   UNABLE TO {OPEN | CLOSE} DD STATEMENT *ddname*. **TRACE FORMATTING TERMINATED.**

Explanation: The indicated ddname could not be opened or closed by the PSF Trace Formatter. Processing is ended because the data set is required.

System action: The Trace Formatter stops processing. If the error occurred during a CLOSE request, the output data set might or might not have been created. The state of the input data set is not affected.

User response: No response is necessary.

System programmer response: Verify that the indicated data set is correctly allocated and that the DD statement is correct in the JCL for the trace formatter job.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 13, 14, 17.

APS961I   INCORRECT SYSIN DATA SET ATTRIBUTES WERE SPECIFIED.

Explanation: The DCB attributes of the SYSIN data set are not valid, in one of these ways:
- The record length of the SYSIN data set is not 80. A record length of 80 is required for the SYSIN data set.
- The SYSIN data set is not in fixed-record format. A fixed-record format is required for the SYSIN data set.

System action: Trace Formatter processing was stopped. No output data set is created.

User response: Ensure that the SYSIN data set has a block size of 80 and is in fixed-record format.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 13, 14, 17.

APS962I   INSUFFICIENT VIRTUAL STORAGE WAS AVAILABLE TO ACQUIRE CONTROL BLOCKS REQUIRED FOR TRACE FORMATTING. TRACE FORMATTING WAS TERMINATED.

Explanation: A GETMAIN error occurred during Trace Formatter initialization. Initialization could not be completed.

System action: Trace Formatter processing is stopped. No output data set is created. The state of the input data set is not affected.

User response: Increase the region size in the JCL for the trace formatter job.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 7, 17.

APS963I   INCORRECT TRACE CONTROL OPTIONS SPECIFIED, TYPE=SHORT WAS ASSUMED.

Explanation: The options specified in the SYSIN data set were not recognized by the Trace Formatter. For information on the format of the SYSIN control options, refer to *PSF for z/OS: Diagnosis*.

System action: Tracing is performed, using TYPE=SHORT.

User response: Correct the options specified in the SYSIN data set.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 12, 17.

APS964I   AN INCOMPLETE TRACE RECORD WAS FOUND AT THE END OF THE TRACE DATA SET.

Explanation: An end of file was encountered before all the data associated with an input trace record had been processed. Incomplete trace records can occur for many reasons, including these:
- PSF was canceled by the operator while tracing.
- End of Volume was encountered while PSF was tracing.
- An I/O error occurred while PSF was tracing.
- A part of the PSF trace is being formatted.

System action: Part or all of the incomplete trace record was not formatted. Formatting of the partial record was attempted. The partial record might have been formatted in dump format.

User response: Inform your system programmer that this error occurred.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 13, 17.

APS965I   NUMBER OF TRACE RECORDS PROCESSED = *count*.

Explanation: The indicated number of input trace records were processed during the execution of the PSF Trace Formatter. The number of trace records might not match the number of trace entries. The message is printed every time the number of entries processed counter-wraps to 0. To obtain the total number of entries processed, add all the occurrences of this message.

System action: Trace Formatter processing continues.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS966I   NUMBER OF TRACE RECORDS IN ERROR = *count*.

Explanation: The indicated number of input unformatted trace records contained errors. The unformatted trace records were in an unrecognizable format. This message is printed every time the trace entries in error counter wraps to 0. To get the total number of trace entries containing errors, add all the occurrences of this message.

System action: The entries containing errors were printed in dump format, and recovery was attempted.

User response: Inform your system programmer that this error occurred.

System programmer response: Errors in the unformatted trace data set can occur because:
- The unformatted trace data set was modified or copied to a data set that has incompatible DCB characteristics.
- The DCB characteristics used in generating the data set do not match the DCB characteristics specified to the Trace Formatter.

If the PSF generated unformatted trace data set was unaltered, consult your IBMservice representative.

Operator Response: No response is necessary.

Problem determination: Items 8, 13, 17.

APS967I   SYSIN DATA SET COULD NOT BE OPENED. DEFAULT FORMATTING TYPE OF SHORT WAS USED.

Explanation: The SYSIN data set could not be opened; the default option (TYPE=SHORT) was assumed.

System action: The default control option, TYPE=SHORT, was assumed.

User response: If a SYSIN data set was specified in the Trace Formatter JCL, verify that the data set exists. If the data set exists and was correctly specified in the Trace Formatter JCL, report the problem to your system programmer.

System programmer response: If you suspect a PSF Trace Formatter logic error, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 12, 13, 15, 17.

APS970I   NO FCB PARAMETER WAS SPECIFIED IN THE DATA SET JCL OR AS A JES DEFAULT.

Explanation: The data set being processed was identified as requiring 3800 Line-Mode Conversion or Line Mode Migration processing. However, no FCB parameter was found in the JCL for the data set; therefore, the processing could not take place.

System action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: If the data set requires 3800 line-mode conversion, specify the correct FCB parameter in the JCL for the data set. If the data set JCL cannot be changed, request that the job be printed on a 3800 printer in compatibility mode or on a 3900 printer with the 3800 compatibility for 3900 RPQ 8B3997. If the data set does not require 3800 line-mode conversion, consult your system programmer, or change the JCL to specify a page definition or form definition that should be used to print this data set. Specifying a page definition or form definition overrides the request to perform the conversion function.

If the data set requires Line Mode Migration processing, specify the correct FCB parameter in the JCL for the data set. If the data set JCL cannot be changed, request the job be printed on a JES-controlled printer that supports the type of FCB being used by the job. For example, a 4245 uses an FCB2 and a 4248 uses an FCB4. If the data set does not require Line Mode Migration processing, consult your system programmer or change the JCL to specify a page definition that should be used to print this data set. Specifying a page definition overrides the request to perform the migration function on the data set.

System programmer response: If the 3800 Line-Mode Conversion function is being used, PSF Exit 4 or 14 requested that line-mode conversion be performed for this data set. If conversion is required, PSF cannot determine the correct formatting of each page because no FCB is specified. Specify an FCB on the JCL, define an installation default FCB, or request that the job be printed in JES 3800 compatibility mode or on a 3900 printer with the 3800 compatibility mode for 3900 RPQ 8B3997 installed.

If you do not want 3800 line-mode conversion for this data set, change PSF Exit 4 or 14 to specify no conversion.

If the Line Mode Migration function is being used, PSF Exit 8 requested that Line Mode Migration be performed on this data set. If the migration is to be performed, PSF cannot determine the page format because no FCB is specified on the data set JCL. Either specify an FCB on the JCL, define an installation default FCB, or request the job be printed on a JES-controlled printer

that supports the type of FCB being used by the job. For example, a 4245 uses a FCB2 and a 4248 uses a FCB4.

If you do not want Line Mode Migration processing for this data set, change Exit 8 so that it does not request the migration function for this data set.

Operator Response: No response is necessary.

Problem determination: Items 3, 17, 19.

APS971I   **MEMBER** *member name* **WAS NOT FOUND IN SYS1.IMAGELIB.**

Explanation: The data set being processed was identified as requiring 3800 Line-Mode Conversion or Line Mode Migration processing. However, the member was not found in the resource library SYS1.IMAGELIB; therefore, the processing could not take place.

System action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: If you want 3800 Line-Mode Conversion or Line Mode Migration processing for this data set, an FCB matching the FCB name in the user JCL must exist in SYS1.IMAGELIB. If the FCB name in the JCL is incorrect, change the name of the FCB in the JCL statements. If the FCB name in the JCL is correct, create an FCB, using IEBIMAGE, that matches the FCB name specified in the JCL. If you do not want 3800 Line-Mode Conversion or Line Mode Migration processing for this data set, or you are using the FCB specified in the JCL as a page definition name to be accessed in a PSF resource library, consult your system programmer.

System programmer response: If the data set should not be converted from 3800 line mode to PSF line mode, change PSF Exit 4 or 14 to request that this data set not be converted.

If the data set should not be migrated from 4245 line mode or 4248 line mode to PSF line mode, change the PSF Exit 8 so migration processing is not performed on this data set.

Operator Response: No response is necessary.

Problem determination: Items 3, 17, 19.

APS972I   **A SYSTEM LOAD ERROR WAS DETECTED WHILE ATTEMPTING TO LOAD MEMBER** *member name* **FROM SYS1.IMAGELIB, SYSTEM COMPLETION CODE** *system completion code*, **SYSTEM REASON CODE** *system reason code*.

Explanation: The data set being processed was identified as requiring 3800 Line-Mode Conversion or

Line Mode Migration processing. However, a LOAD error occurred during the attempt to load the member from SYS1.IMAGELIB into virtual storage.

System action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: Inform your system programmer that this error occurred.

System programmer response: To determine an appropriate response, Use the system completion code and system reason code issued by the LOAD SVC routine. To interpret the completion code and reason code, refer to *z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU* for a description of the LOAD macro. After resolving the problem, resubmit the data set.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 3.

APS973I   **THE PAGE LENGTH OF** *fcb-paper-length* **INCHES DEFINED IN FCB** *fcb-name* **DOES NOT MATCH THE** *physical-paper-length* **INCH LENGTH OF THE PAPER LOADED IN THE PRINTER.**

Explanation: The data set being processed was identified as requiring 3800 line mode conversion. However, the paper length in the FCB, as calculated by number of lines and lines per inch, must match the physical length of the paper loaded in the printer.

System action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: If the correct FCB was specified in the data set JCL, request that the operator load the correct paper in the printer, or specify the correct installation-defined FORM= in the data set JCL. If the FCB specified is incorrect for the data set JCL, correct the FCB specified and resubmit the data set.

System programmer response: No response is necessary.

Operator Response: Load the FORM that corresponds to the paper size specified in the FCB.

Problem determination: Items 2, 17, 19.

APS974I   **THE DATA SET IS NOT A VALID CANDIDATE FOR 3800-1 COMPATIBILITY MODE PROCESSING. COPYMOD** *copymod-name* **WAS SPECIFIED IN THE DATA SET JCL, BUT COPYMOD PROCESSING IS NOT A SUPPORTED FUNCTION.**

Explanation: The data set being processed was identified as requiring 3800-1 compatibility mode (3800 line mode) conversion. However, a COPYMOD *copymod-name* was specified in the data set JCL; and COPYMOD conversion is not a supported function.

System action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: Request that the job be printed in JES 3800-1 compatibility mode or on a 3900 printer with the 3800 Compatibility for 3900 RPQ 8B3997 installed.

System programmer response: No response is necessary.

Operator Response: Route the job to a 3800 printer that is running in JES 3800-1 compatibility mode or to a 3900 printer with the 3800 Compatibility for 3900 RPQ 8B3997 installed.

Problem determination: Items 3, 17, 19.

APS975I   **THE DATA SET IS NOT A VALID CANDIDATE FOR 3800-1 COMPATIBILITY MODE PROCESSING, BECAUSE A PAGEDEF OR FORMDEF WAS SPECIFIED IN THE DATA SET JCL. THE DATA SET WAS PRINTED USING THE PAGEDEF OR FORMDEF SPECIFIED IN THE JCL.**

Explanation: The data set being processed was identified as requiring 3800-1 compatibility mode (3800 line mode) conversion. Because the PAGEDEF or FORMDEF parameter was specified in the data set JCL, no attempt was made to convert the job from 3800 line mode to PSF line mode. Instead, the data set was printed as if no conversion had been requested. If an FCB was specified in the data set JCL, and no PAGEDEF was specified, the FCB name is used as the PAGEDEF. If both an FCB and a PAGEDEF parameter were specified in the JCL, the PAGEDEF parameter was used to print the data set.

System action: PSF continues processing the data set, but does not perform the 3800 line-mode conversion to PSF line mode.

User response: Remove the PAGEDEF or FORMDEF parameters from the JCL, or notify your system programmer of this error.

System programmer response: No response is necessary.

Problem determination: Items 3, 17, 19.

APS976I   **THE DYNAMIC ALLOCATION FUNCTION WAS UNSUCCESSFUL FOR SYS1.IMAGELIB—SYSTEM COMPLETION CODE** *system completion code*, **DYNALLOC ERROR CODE** *error code*, **INFORMATION REASON CODE** *information code*.

Explanation: The data set being processed was identified as requiring 3800 Line-Mode Conversion or Line Mode Migration processing. However, an ALLOCATE error occurred during the attempt to allocate SYS1.IMAGELIB.

System action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: Inform your system programmer that this error occurred.

System programmer response: Use the system completion code, error code, and information code issued by the ALLOCATE routine to determine an appropriate response. To interpret the completion code, SVC99 error code, and SVC99 information code, refer to *z/OS MVS Programming: Authorized Assembler Services Guide*. After resolving the problem, resubmit the print job.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 14, 17, 19.

APS977I   **SYSTEM FUNCTION** *open* | *close* **FOR SYS1.IMAGELIB WAS UNSUCCESSFUL. PLEASE INFORM YOUR SYSTEM PROGRAMMER.**

Explanation: The data set being processed was identified as requiring 3800 Line-Mode Conversion or Line Mode Migration processing. However, an OPEN or CLOSE macro was unsuccessful. One of these conditions caused this error:

- An OPEN macro request, which results in an SVC 19, was issued to open SYS1.IMAGELIB. After returning from the OPEN macro, PSF discovered that the Data Control Block (DCB) had not been opened.
- A CLOSE macro request, which results in an SVC 20, was issued to close SYS1.IMAGELIB. After returning from the CLOSE macro, PSF discovered that the Data Control Block (DCB) had not been not closed.

System action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the

current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: Inform your system programmer that this error occurred.

System programmer response: For the system information associated with this error, see the additional console messages.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS978I   **3800-1 COMPATIBILITY MODE PROCESSING FUNCTION IS NOT SUPPORTED FOR THIS PRINTER.**

Explanation: The data set being processed was identified as requiring 3800-1 compatibility mode (3800 line-mode) conversion. However, PSF does not support the 3800 line-mode conversion function for the 3800 printer.

System action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: Ensure that data sets requiring 3800 line-mode conversion are routed to a printer other than the 3800. Otherwise, print the data set using JES in 3800-1 compatibility mode, or route it to a 3900 printer with the 3800 Compatibility for 3900 RPQ 8B3997 installed; or change PSF Exit 4 or 14 so that conversion is never requested for print jobs running to a 3800.

System programmer response: Ensure that installation procedures are defined to print data sets requiring 3800 line-mode conversion on printers other than the 3800, or use JES in 3800-1 compatibility mode to print those data sets. If 3800 line-mode conversion is not desired for the data set, modify PSF Exit 4 or 14 to request that no conversion be done for the data set.

Operator Response: Notify your system programmer. If installation procedures allow it, print the data set in 3800-1 compatibility mode. Otherwise, no response is necessary.

Problem determination: Items 3, 17, 19.

APS979I   **AN INCORRECT REQUEST FROM THE LOGICAL RECORD EXIT WAS DETECTED FOR LOGICAL RECORD** *logical record number*.

Explanation: An incorrect request was returned by the logical record processing exit 04 or 14 during 3800 line-mode conversion.

System action: PSF stops processing and printing the

data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: Inform your system programmer that this error occurred.

System programmer response: Verify that recent changes have not caused an error in the logical record processing exit.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 3, 17, 19, 26.

APS980I   **THERE WAS A PREVIOUS ERROR RETURNED FROM THE OPEN REQUEST ON SYS1.IMAGELIB. NO PROCESSING WILL BE DONE.**

Explanation: The data set being processed was identified as requiring 3800 Line-Mode Conversion or Line Mode Migration processing. However, the OPEN attempt on SYS1.IMAGELIB failed.

System action: PSF stops processing and printing the data set. In deferred printing mode PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: Inform your system programmer that this error occurred.

System programmer response: Examine the system codes and messages issued for the original OPEN error. APS977I was issued by PSF at the time of the original OPEN error. The system diagnostic messages are in the area of the APS977I message on the console or in the console log.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 3, 17, 19.

APS981I   **THE DATA SET IS NOT A VALID CANDIDATE FOR LINE MODE MIGRATION PROCESSING BECAUSE A PAGEDEF OR FORMLEN PARAMETER WAS SPECIFIED IN THE DATA SET JCL. THE DATA SET WAS PRINTED USING THE PAGEDEF OR FORMLEN SPECIFIED IN THE JCL.**

Explanation: The data set being processed required Line-Mode Migration processing. Because a PAGEDEF or FORMLEN parameter was specified in the data set JCL, the data set was not migrated from 4245 line mode or 4248 line mode to PSF line mode. The data set was printed using the PAGEDEF or FORMLEN parameter specified in the JCL.

System action: If a PAGEDEF parameter was

specified in the data set JCL, PSF used the page definition specified on the PAGEDEF parameter to print the data set even if a FCB parameter was specified in the data set JCL. If a FORMLEN parameter was specified in the data set JCL, PSF printed the data set using the FORMLEN parameter in addition to the page definition or FCB that might have been specified in the data set JCL.

User response: If the data set is to be migrated, remove the PAGEDEF or FORMLEN parameter from the data set JCL. If the data set is not to be migrated, notify your system programmer of this error.

System programmer response: If the data set is to be migrated, have the user remove the PAGEDEF or FORMLEN parameter from the data set JCL and instead use the FCB parameter to specify an FCB for PSF to use when migrating the data set. Ensure that the data set is processed using the correct type of Line Mode Migration processing: 4245 FCB or 4248 FCB. If the data set is not to be migrated, modify PSF Exit 8 so the data set is not selected for migration processing.

Operator Response: No response is necessary.

Problem determination: Items 3, 17, 19.

APS982I **LINE MODE MIGRATION PROCESSING FOR THIS DATA SET IS TERMINATED BECAUSE IT IS NOT USING A 4248 FCB.**

Explanation: The data set being processed was identified as requiring Line Mode Migration processing for a 4248 FCB (FCB4). However, the FCB specified in the FCB parameter in the JCL for the data set is not a 4248 FCB.

System action: PSF stops processing the data set and releases it back to JES. It requests that the data set be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement in the JCL for the data set.

User response: If the data set requires Line Mode Migration processing for a 4248 FCB, specify the name of a 4248 FCB in the FCB parameter in the data set JCL. If the data set JCL cannot be changed, request that the job be printed on a JES-controlled 4248 printer.

If the data set does not require Line Mode Migration processing, change the JCL to specify a page definition for PSF to use to print this data set or have your system programmer modify PSF Exit 8 so Line Mode Migration processing is not performed on this data set. Specifying a page definition overrides the request to perform the Line Mode Migration processing on the data set. For more information about a 4248 FCB, refer to *z/OS DFSMSdfp Utilities*.

System programmer response: If the Line Mode Migration processing should be performed on this data set, have the user specify a 4248 FCB on the data set JCL. If Line Mode Migration processing should not be performed on this data set, modify PSF Exit 8 so processing is not performed on this data set.

Operator Response: No response is necessary.

Problem determination: Items 3, 17, 19.

APS986I **NO DOWNLOAD ROUTING RECORD MATCHED FOR JOB (***jobname***), DATASET (***data set name***).**

Explanation: The class, form name, or destination specified in the JCL for the data set does not match any of the routing records in the Download for z/OS routing-control data set. Download for z/OS cannot determine the remote system to which to route this data set. Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action: Download for z/OS releases the data set back to JES and requests that it be held by the system.

User response: No response is necessary.

System programmer response: Consider adding a routing statement in the Download for z/OS routing-control data set to match the data set's class, form name, or destination. After modifying the routing-control data set, stop the FSS and restart the Download for z/OS FSAs to use the modified routing-control data set.

Operator Response: Release the held data set after the system programmer has modified the routing-control data set to add the class, destination, or form name of the data set. If the system programmer does not want to modify the routing-control data set, you can process the held data set by releasing it with a class, form name, or destination that matches an existing routing statement in the routing-control data set. For example, to release output group 2.1.1 of job 13 to class C:

```
$T 0 J13,OUTGRP=2.1.1,REL=SYS,Q=C
```

Problem determination: None.

APS987I **THE REMOTE SYSTEM DID NOT SUCCESSFULLY PROCESS THE RECEIVED DATA SET OR THE TOTAL BYTES SENT DOES NOT MATCH THE TOTAL BYTES RECEIVED BY THE REMOTE SYSTEM.**

Explanation: The remote system detected an error with the received data set. Either the script or exit invoked by the download receiver encountered an error, or a discrepancy exists between the number of bytes sent by Download for z/OS and the number of bytes received by the remote system.

Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action: Download for z/OS attempts to resend the data set according to the retry interval and retry number specified in the matching routing record of the Download for z/OS routing-control data set. If retry is not requested or is not successful, Download for z/OS releases the data set back to JES and requests that it be held by the system.

User response: No response is necessary.

System programmer response: Check the error logs on the remote system for messages that provide additional information about the cause of the error. Ensure that TCP/IP is functioning correctly. If the problem persists, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 2, 17, 19.

APS988I   **DOWNLOAD SENT** *number* **(***base***) BYTES TO** *nnn.nnn.nnn.nnn***-JOB=** *jobname* **STEP=** *jobstep* **ID=** *jobid***.**

Explanation: A data set with the indicated number of bytes was resent to the remote system with the IP address (*nnn.nnn.nnn.nnn*) indicated in the message.

In the message, *number* has two possible forms.

- For files smaller than 4 gigabytes (GB), *number* is the decimal number of bytes sent and *base* is DECIMAL.
- For files larger than 4 GB, *number* is the hexadecimal number of bytes sent. The *base* is HEX and *number* is 16 hexadecimal digits including leading zeros.

The job submitter requested that this message be sent to the user IDs specified in the NOTIFY keyword in the JCL for the data set. When the job submitter specifies the NOTIFY keyword, this message is sent also to the SYSLOG data set. Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action: Download for z/OS verifies that all data was received by the server on the AIX® system before purging the data set from the JES spool. No response is necessary.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS989I   **DOWNLOAD SOCKET** *xxxxxx* **COMMAND FAILED FOR IPADDR=** *nnn.nnn.nnn.nnn***, PORTNUM=** *nnnn***, RETURN CODE=** *nn***, ERRNO=** *nnnn***.**

Explanation: The named socket API call failed with the return code and error number indicated. The IP address and port number of the target remote system and server are indicated in the message.

If RETURN CODE = 0 and ERRNO = 0, then the connection partner has closed its end of the socket connection.

Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action: Download for z/OS resends the data set according to the retry interval and retry number specified in the matching routing record of the Download for z/OS routing-control data set. If retry is not requested or is not successful, Download for z/OS releases the data set back to JES and requests that it be held.

User response: No response is necessary.

System programmer response: To interpret the ERRNO, refer to *z/OS Communications Server: IP and SNA Codes*. Ensure that the server with the IP address and port number indicated in the message is running. If the server is down, restart the server. You usually do not need to restart Download for z/OS. If the connection partner has closed its end of the socket connection, determine why the connection has closed.

When restarting the server, the administrator of the remote system should specify the same file systems to store files received from Download for z/OS. If the same file systems are not specified, transmission of the interrupted file restarts from the beginning of the file instead of from the checkpoint.

Operator Response: Inform your system programmer that this error occurred. Stop the Download for z/OS FSS, and restart the FSAs if necessary.

Problem determination: Items 1, 2, 17, 19.

APS990I   **INCORRECT KEYWORD (***xxxxxx***) SPECIFIED IN THE DOWNLOAD ROUTING CONTROL DATASET. THE KEYWORD IS IGNORED.**

Explanation: Download for z/OS detected an incorrect keyword in the Download for z/OS routing-control data set. Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action: Download for z/OS ignores the incorrect keyword and continues processing the other keywords.

User response: No response is necessary.

System programmer response: Correct the incorrect keyword in the routing-control data set. To use the modified routing-control data set, stop the Download for z/OS FSS and restart the FSAs.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS991I   DOWNLOAD ROUTING STATEMENT NUMBER *nn* **DOES NOT CONTAIN ALL THE REQUIRED KEYWORDS. THE STATEMENT IS IGNORED.**

Explanation: A routing statement in the Download for z/OS routing-control data set does not contain the required keywords. *nn* is the number of the statement in the routing-control data set; a statement consists of a series of keywords ending with a semicolon. Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action: Download for z/OS ignores the routing statement and continues processing the other routing statements, if any.

User response: No response is necessary.

System programmer response: Correct the incorrect routing statement. Then, stop the Download for z/OS FSS and restart the FSAs to use the modification.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS992I   *download version* INITIALIZED.

Explanation: The Download for z/OS version specified was initialized successfully. Refer to *PSF for z/OS: Download for z/OS* for more information about the Download for z/OS feature.

System action: The Download for z/OS FSA is ready to receive data sets from the JES spool and send them to servers on AIX systems.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS993I   DOWNLOAD REQUEST CANCELLED—JOB= *jobname* **STEP=** *jobstep* **ID=** *jobid* **AT** *system-id*.

Explanation: The operator canceled processing of the data set indicated in the message. The job submitter requested that this message be sent to the user IDs

specified in the NOTIFY keyword in the JCL for the data set. When the job submitter specifies the NOTIFY keyword, this message is sent also to the SYSLOG data set. Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action: Download for z/OS continues processing the next data set.

User response: Consult the system operator to determine why the operator canceled the data set.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS994I   DOWNLOAD REQUEST MARKED UNPRINTABLE—JOB= *jobname* **STEP=** *jobstep* **ID=** *jobid* **AT** *system-id*.

Explanation: Download for z/OS has determined that the data set identified in the message cannot be sent. The job submitter requested that this message be sent to the user IDs. When the job submitter specifies the NOTIFY keyword, this message is sent also to the SYSLOG data set. Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action: Download for z/OS releases the data set back to JES, and requests that the system hold it.

User response: Consult the system operator to determine why the data set is being held.

System programmer response: No response is necessary.

Operator Response: See the associated messages to determine the correct action.

Problem determination: None.

APS995I   DOWNLOAD SOCKET *xxxxxx* **COMMAND FAILED WITH RETURN CODE=** *nn*, **ERRNO=** *nnnn*.

Explanation: The named socket API call failed with the return code and error number indicated. Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action:

- If *xxxxxx* is INITAPI, the Download FSA might stop. If the error occurs while Download for z/OS is sending a data set, Download for z/OS releases the data set back to JES and requests that it be held by the system.
- If *xxxxxx* is SOCKET, Download for z/OS resends the current data set according to the retry interval and

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retry number specified in the matching routing record of the Download for z/OS routing-control data set. If retry is not requested or is not successful, Download for z/OS releases the data set back to JES and requests that it be held by the system.

User response: No response is necessary.

System programmer response: To interpret the ERRNO, refer to *z/OS Communications Server: IP and SNA Codes*.

Operator Response: Inform your system programmer that this error occurred.
- If *xxxxxx* is INITAPI, start TCP/IP and then start Download for z/OS again.
- If *xxxxxx* is SOCKET, stop the Download for z/OS FSS and then restart the FSAs. Before restarting the FSAs, ensure that TCP/IP is running and the communication controller between the z/OS system and the remote system is online.

Problem determination: Items 1, 2, 17, 19.

APS996I   **INCORRECT PARAMETER VALUE (***value***) SPECIFIED FOR KEYWORD (***keyword***) AT LINE NUMBER (***nnn***) IN THE DOWNLOAD ROUTING CONTROL DATA SET. THE KEYWORD IS IGNORED.**

Explanation: Download for z/OS detected an incorrect parameter in the Download for z/OS routing-control data set.

value   Is the text that contains the error.

keyword
           Is the keyword in the routing record that was being parsed when the error was detected.

nnn   Is the number of the line (80-character record) in the routing-control data set.

Download for z/OS detected this error. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

System action: Download for z/OS ignores the keyword associated with the incorrect parameter and continues processing the other keywords.

User response: No response is necessary.

System programmer response: Correct the incorrect parameter in the routing-control data set. To use the modified routing control data set, stop the Download for z/OS FSS and restart the FSAs.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS997I   **DOWNLOAD DID NOT TRANSMIT THE DATASET BECAUSE IPADDR (***ip-address***) COULD NOT BE RESOLVED.**

Explanation: The IPADDR specified in the routing-control data set could not be used, so the file was not sent. If a dotted decimal address was provided, it was not in the correct format or was not valid. If a host name was provided, it could not be resolved by TCP/IP.

System action: Download for z/OS attempts to resend the data set according to the retry interval and retry number specified in the matching routing record of the routing-control data set. If retry is not requested or is not successful, Download for z/OS releases the data set back to JES and requests that it be held by the system.

User response: Inform your system programmer that this error occurred.

System programmer response: If a dotted decimal address was provided, correct the IPADDR parameter in the routing-control data set. To use the modified routing control data set, stop the Download for z/OS FSS and restart the FSAs.

If a valid host name was provided, contact your TCP/IP administrator. Download for z/OS uses the same name resolver as the TSO LPR command.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS998I   **THE LAST STATEMENT IN THE DOWNLOAD ROUTING CONTROL DATA SET WAS NOT PROPERLY TERMINATED.**

Explanation: Download for z/OS detected that the last statement in the routing-control data set was not ended with a semicolon.

System action: Download for z/OS ignores the last statement and continues processing with the other valid statements.

User response: No response is necessary.

System programmer response: Correct the incorrect statement by specifying a final semicolon. Ensure all required keywords are specified. To use the modified routing-control data set, stop the Download FSS and restart the FSAs.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

**APS1000I   PRINTER INVENTORY IS NOT
            SUPPORTED ON THIS LEVEL SYSTEM.**

Explanation: The EXEC statement in the PSF startup
procedure specifies PARM=(INV= *dbname*) indicating
that the Infoprint Server Printer Inventory is to be used.
However, Printer Inventory support in Infoprint Server
requires OS/390 2.10 or z/OS 1.2 or later. The current
operating system on which PSF is running is
down-level.

System action: The printer does not start.

User response: No response is necessary.

System programmer response: Correct the EXEC
statement, or run PSF on a later-level operating system.

Operator Response: No response is necessary.

Problem determination: None.

**APS1001I   PRINTER INVENTORY NAME
            SPECIFIED FOR *fssname* IS NOT
            VALID.**

Explanation: The EXEC statement in the PSF startup
procedure specifies PARM=(INV= *dbname*) indicating
that the Infoprint Server Printer Inventory is to be used,
but the name is not valid.

System action: The printer does not start.

User response: No response is necessary.

System programmer response: Correct the EXEC
statement and restart PSF.

Operator Response: No response is necessary.

Problem determination: None.

**APS1002I   SERVER NOT STARTED FOR PRINTER
            INVENTORY *dbname*.**

Explanation: The EXEC statement in the PSF startup
procedure specifies PARM=(INV= *dbname*) indicating
the Infoprint Server Printer Inventory is to be used, but
the required Infoprint Server is not running.

System action: The printer does not start.

User response: No response necessary.

System programmer response: Start the Infoprint
Server and restart PSF.

Operator Response: No response is necessary.

Problem determination: None.

**APS1003I   STORAGE NOT AVAILABLE TO
            ACCESS PRINTER INVENTORY
            dbname.**

Explanation: PSF attempted to access the Infoprint
Server Printer Inventory. The Infoprint Server returned a

code that indicated it could not obtain the storage it
required.

System action: The printer does not start.

User response: No response is necessary.

System programmer response: Increase the storage
available for the Infoprint Server, and restart Infoprint
Server and PSF. For more information, refer to *z/OS
Infoprint Server Customization*.

Operator Response: No response is necessary.

Problem determination: None.

APS1004I   PRINT SERVER LOAD ERROR *errno*

Explanation: PSF attempted to access the Infoprint
Server Printer Inventory. For more information about the
Infoprint Server load errno, refer to *z/OS Infoprint
Server Messages and Diagnosis*

System action: The printer does not start.

User response: No response is necessary.

System programmer response: Correct the Infoprint
Server error and restart PSF. For more information
about the Infoprint Server load errno, refer to *z/OS
Infoprint Server Messages and Diagnosis*.

Operator Response: No response is necessary.

Problem determination: None.

**APS1005I   UNEXPECTED PRINT SERVER ERROR
            errno.**

Explanation: PSF attempted to access the Infoprint
Server Printer Inventory. The server returned the
indicated error code.

System action: The printer does not start.

User response: No response is necessary.

System programmer response: Determine the
meaning of the Infoprint Server error code and correct
the error. For information about Infoprint Server
messages and codes, refer to *z/OS Infoprint Server
Messages and Diagnosis*. Then, restart PSF.

Operator Response: No response is necessary.

Problem determination: None.

**APS1006I   PRINTER INVENTORY *dbname* DATA
            ERROR FOR TAG *tag*.**

Explanation: While accessing the Printer Inventory
through the Infoprint Server, PSF received the error
indicated.

System action: The printer does not start.

User response: No response is necessary.

System programmer response: Correct the error in

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the Printer Inventory and restart PSF. For more information about the Infoprint Server, refer to *z/OS Infoprint Server Customization* and *z/OS Infoprint Server Operation and Administration*.

Operator Response: No response is necessary.

Problem determination: None.

APS1007I   PRINT SERVER CONNECTION LOST.

Explanation: While accessing the Printer Inventory through the Infoprint Server, PSF lost the connection with the Infoprint Server.

System action: The printer does not start.

User response: No response is necessary.

System programmer response: Correct the error and restart PSF.

Operator Response: No response is necessary.

Problem determination: None.

APS1008I   *fssname* I *fsaname* NOT FOUND IN PRINTER INVENTORY.

Explanation: PSF accessed the Infoprint Server Printer Inventory to obtain PSF initialization parameters. The Infoprint Server indicated that the required FSS or FSA definition is not in the Printer Inventory.

System action: The printer does not start.

User response: No response is necessary.

System programmer response: Correct the error and restart PSF. For more information about FSS and FSA definitions in the Printer Inventory, refer to *z/OS Infoprint Server Operation and Administration* or *PSF for z/OS: Customization*.

Operator Response: No response is necessary.

Problem determination: None.

APS1009I   SYSTEM ACTION TAKEN: THE ERRORS LISTED PREVENTED THE PRINTING OF THE DATA SET. THE DATA SET WILL BE TERMINATED.

Explanation: This message indicates the recovery that PSF performs when the printer reports an input/output (I/O) error to PSF. This message accompanies a message that describes the I/O error and a message that displays the sense bytes reported from the printer.

System action: The printer you were using might try to print the page containing the error, or might print only part of the page. If the page containing the error contains any positioning errors, print-error markers might be included on the printed page. PSF stops processing and printing the data set that contains this error.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS1010I   AFP DOWNLOAD PLUS DOES NOT HONOR THE *jescommand* JES COMMAND. THE COMMAND IS IGNORED.

Explanation: AFP Download Plus does not support the JES FSI synch order that was entered. The only JES FSI synch orders that are supported are Cancel and Restart.

System action: AFP Download Plus ignores the command and continues processing.

User response: None.

System programmer response: None.

Operator Response: If you entered the wrong command, enter the correct one.

Problem determination: None.

APS1011A   DO YOU WANT TO *jescommand* SPOOL DATA SET *jobid*? ENTER CONT OR IGNORE.

Explanation: You have entered a supported JES FSI synch order. AFP Download Plus issues this message to confirm that you want to apply this command to the spool data set mentioned in the message. The only JES FSI synch orders that are supported are Cancel and Restart.

System action: AFP Download Plus waits for your response to the message. If you enter CONT or C, AFP Download Plus performs the JES command. If you enter IGNORE or I, AFP Download Plus ignores the command and continues processing.

User response: None.

System programmer response: None.

Operator Response: Reply to the message. Enter CONT or C to perform the JES command. Enter IGNORE or I to ignore the JES command.

Problem determination: None.

APS1012A YOU ENTERED AN INCORRECT VALUE. ENTER CONT OR IGNORE.

Explanation: You entered an incorrect response to message APS1011A.

System action: AFP Download Plus waits for your response to the message. If you enter CONT or C, AFP Download Plus performs the JES command listed in message APS1011A. If you enter IGNORE or I, AFP Download Plus ignores the command listed in APS1011A and continues processing.

User response: None

System programmer response: None.

Operator Response: Reply to the message. Enter CONT or C to perform the JES command. Enter IGNORE or I to ignore the JES command.

Problem determination: None.

APS1500I A *bin_type* **BIN NUMBER HAS NOT BEEN SPECIFIED FOR INPUT BIN NUMBER** *bin_number* **IN INSTALLATION EXIT 7.**

Explanation: An installation Exit 7 has requested side and edge sensitive paper handling for the input bin, but did not specify a *bin_type* bin number. *bin_type* can be simplex or duplex.

System action: PSF ignores the request for bin substitution for bin number *bin_number*, but performs all other bin substitutions requested in this installation Exit 7.

User response: If the printed output is not acceptable, contact your system programmer.

System programmer response: Correct the installation Exit 7 to specify both a simplex and a duplex bin for each input bin that requires substitution.

Operator Response: Inform your system programmer.

Problem determination: None.

APS1501I THE SIDE AND EDGE SENSITIVE PAPER HANDLING FUNCTION HAS BEEN DEACTIVATED BECAUSE NO BINS WERE SPECIFIED FOR SUBSTITUTION.

Explanation: An installation Exit 7 requested side and edge sensitive paper handling, but did not specify a bin number that requires substitution.

System action: PSF ignores the request for side and edge sensitive paper handling and does not perform bin substitution. PSF then generates this informational message and continues processing.

User response: If the printed output is not acceptable, contact your system programmer.

System programmer response: Correct the installation Exit 7. Either turn off the XTP7SENS flag, which indicates that bins are to be substituted for side and edge sensitivity processing, or correctly specify bins that require substitution.

Operator Response: Inform your system programmer.

Problem determination: None.

APS1700I UNABLE TO LOAD USER MAPPING TABLE APSRNTGM.

Explanation: User mapping table APSRNTGM could not be loaded by use of link list search order.

System action: The Font Library utility continues processing without a user mapping table.

User response: Notify your system programmer.

System programmer response: If no user mapping table has been defined for your system, this message can be ignored. If a user mapping table has been defined for your system, determine why the table is not in link list search order. The user mapping table should be installed in the same data set as PSF and the Font Library utility.

Operator Response: No response is necessary.

Problem determination: Items 2, 5, 8, 17.

APS1701I NO DATA SETS TO PROCESS—PROCESSING ENDED.

Explanation: The JCL to run the Font Library utility does not contain any DD statements starting with *FONT*.

System action: The Font Library utility stops processing. No code pages or character sets are updated.

User response: Identify all font libraries with DD names that start with *FONT*.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS1702I PROCESSING COMPLETED FOR RESOURCE *resource name*.

Explanation: The code page or character set specified in the message was updated by the Font Library utility with new valid GRID data.

System action: The Font Library utility continues processing.

User response: No response is necessary.

System programmer response: No response is necessary.

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Operator Response: No response is necessary.

Problem determination: None.

APS1703I **OLD GRID HEX VALUES: {FGID=** *nnnn* **GCSGID=** *nnnn* **FONT WIDTH=** *nnnn* **|** **CPGID=** *nnnn* **GCSGID=** *nnnn***}.**

Explanation: The code page or character set specified in the message contained the specified GRID data before processing by the Font Library utility.

System action: The Font Library utility continues processing.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS1704I **NEW GRID HEX VALUES: {FGID=** *nnnn* **GCSGID=** *nnnn* **FONT WIDTH=** *nnnn* **|** **CPGID=** *nnnn* **GCSGID=** *nnnn***}.**

Explanation: The code page or character set specified in the message was updated by the Font Library utility, and contains the specified GRID data.

System action: The Font Library utility continues processing.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS1705I **PROCESSING COMPLETED FOR ALL DATA SETS.**

Explanation: The Font Library utility has completed processing all the data sets specified in the JCL.

System action: The Font Library utility is complete with all processing.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS1706I **NO AVAILABLE USER RANGE GRID VALUES FOR CODE PAGES.**

Explanation: All user range CPGIDs have already been assigned to existing code pages. Insufficient user range CPGIDs are available to satisfy all the fonts on your system.

System action: The Font Library utility stops processing. Some code pages are not updated appropriately.

User response: Inform your system programmer that this error occurred.

System programmer response: Notify your IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS1707I **USER MAPPING TABLE APSRNTGM IS LOADED AND MAY BE USED BY APSRFLU TO UPDATE FONT GRID DATA.**

Explanation: User mapping table APSRNTGM was loaded using the link list search order.

System action: The Font Library utility continues processing, using the user mapping table.

User response: Notify your system programmer.

System programmer response: If a user mapping table has been defined for your system, this message can be ignored. If a user mapping table is not intended to be used on your system, determine why the table is in link list search order.

Operator Response: No response is necessary.

Problem determination: Items 2, 5, 8, 17.

APS1708I **A SPECIFIED FONT LIBRARY HAS INCORRECT DATA SET ATTRIBUTES. NO PROCESSING HAS BEEN PERFORMED.**

Explanation: The Font Library utility JCL contains a DD statement, starting with FONT, that has attributes not valid for a font data set. The data set either is not variable blocked, contains spanned records, does not contain carriage control, or is not a partitioned data set.

System action: The Font Library utility stops processing. No code pages or character sets are updated.

User response: Update your JCL to specify only DD names that start with FONT and that are font data sets, and resubmit your job. If all DD names that start with FONT are font data sets, notify your system programmer.

System programmer response: Verify that all font data sets have the required font data set attributes. Change all data sets that do not have the proper attributes or do not use those data sets with PSF.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS1709I **THE USER MODIFIABLE NAME TO GRID TABLE IS UNUSABLE BECAUSE IT IS AMODE 31. NO PROCESSING HAS BEEN PERFORMED.**

Explanation: The user-modifiable mapping table APSRNTGM is installed as AMODE 31, but the Font Library utility requires the table to be AMODE 24.

System action: The Font Library utility stops processing. No code pages or character sets are updated.

User response: Notify your system programmer.

System programmer response: Relink-edit the user-modifiable mapping table APSRNTGM in the PSF linklib as AMODE=24.

Operator Response: No response is necessary.

Problem determination: Items 2, 16, 17.

APS1710I **PROCESSING ABORTED FOR RESOURCE** *membername* **IN DD** *ddname*. **CPD OR FND STRUCTURED FIELD IS MISSING.**

Explanation: If the specified resource is a code page, the CPD structured field is not included in the code page data. If the specified resource is a character set, the FND structured field is not included in the character set. These structured fields are required for processing by the Font Library utility.

System action: The Font Library utility stops processing. Some code pages and character sets are not updated appropriately.

User response: Inform your system programmer that this error occurred.

System programmer response: If you created the structured fields for the font, correct the error and resubmit the job. For more information about the structured field, refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference*. If an IBM licensed program was used to create the structured fields for the font containing the error, verify that the input to the program was valid.

Operator Response: No response is necessary.

Problem determination: Items 2, 15, 17.

APS1711I **NO AVAILABLE USER RANGE GRID VALUES FOR CHARACTER SETS.**

Explanation: All user range FGIDs have already been assigned to existing character sets. Insufficient user range FGIDs are available to satisfy all the fonts on your system.

System action: The Font Library utility stops

processing. Some character sets are not updated appropriately.

User response: Inform your system programmer that this error occurred.

System programmer response: Notify your IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS2000I **THE REGISTERED OBJECT TYPE ID ('*registration id*') OF AN OBJECT CONTAINER RESOURCE, NAME** *resource name* **or OBJECT OID** *oid* **IS NOT VALID OR IS NOT SUPPORTED BY PSF OR THE PRINTER.**

Explanation: The registration ID specified for an object container is not supported by the printer. The registration ID is specified in the object classification triplet on one of these structured fields:

- Include Object (IOB)
- Begin Object Container (BOC)
- Begin Resource (BRS, also called BR)
- Map Data Resource (MDR)

A value of *** for the name or object OID means that it was not specified.

System action: PSF stops processing the page or overlay. PSF tries to locate the end of the current page and resume processing on the next page. If the end of current page cannot be located, PSF stops printing the data set. PSF issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the object container resource, ensure that the registration ID is correct. If the registration ID is correct, submit the print job to a printer that supports this object type. For more information about what object types are supported by your printer, refer to your printer documentation.

System programmer response: If an IBM licensed program was used to create the structured fields, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2001I COLOR FIDELITY WAS REQUESTED BUT COLOR FIDELITY IS NOT SUPPORTED BY THIS PRINTER. PROCESSING OF THE DATA SET IS TERMINATED.

Explanation: User has requested color fidelity with a continuation exception rule of stop. However, the printer does not support color fidelity.

System action: PSF ends processing on this data set and returns the data set to JES to have it held.

User response: Submit the print job to a printer that supports color fidelity. Contact your operator to determine which printers support color fidelity.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS2002I COLOR FIDELITY WAS REQUESTED BUT COLOR FIDELITY IS NOT SUPPORTED BY THIS PRINTER. PROCESSING OF THE DATA SET CONTINUES.

Explanation: User has requested color fidelity with a continuation exception rule of continue. However, the printer does not support color fidelity and thus does not control the reporting of unsupported or incorrect color value.

System action: PSF processes this data set without color fidelity.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS2003I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: STRUCTURED FIELD *structured field* **CONTAINED AN EXTENDED RESOURCE LOCAL IDENTIFIER VALUE THAT WAS USED IN A PREVIOUS STRUCTURED FIELD OF THE SAME TYPE.**

Explanation: More than one structured field used the same Extended Resource Local Identifier value for different resources of the same type. The Extended Resource Local Identifier is specified by using the Extended Resource Local Identifier (X'22') triplet on the structured field. The structured field that attempted to use the same Extended Resource Local Identifier value is identified in the message.

System action: PSF stops processing the current data set and issues messages identifying the position of the structured field and the processing environment when the error was found.

User response: If you created the structured fields for the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2004I DATA IN A FORMDEF RESOURCE IS NOT VALID: MEDIA TYPE LOCAL IDENTIFIER IN MMC STRUCTURED FIELD, ID *identifier***, WAS NOT FOUND IN THE MMT STRUCTURED FIELD.**

Explanation: The Media Type local ID in the Medium Modification Control (MMC) structured field was not present in the Map Media Type (MMT) structured field. The MMC and MMT structured fields are in the form definition.

System action: The form definition containing the error is not used, and one of these occurs:

- If the error is in the default form definition, or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured

field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2005I   DATA IN AN INPUT RECORD OR PAGEDEF RESOURCE IS NOT VALID: RECORD IDENTIFIER *record identifier* **COULD NOT BE FOUND WITHIN THE RCD STRUCTURED FIELDS.**

Explanation: The record identifier specified in an input record could not be matched to a Record Descriptor (RCD) structured field in the current data map. The RCD structured field is in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print error messages. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2006I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: GRAPHICS GENERATION WAS SPECIFIED ON RCD STRUCTURED FIELD NUMBER *structured field number*, **BUT THE PRINTER DOES NOT SUPPORT GRAPHICS OBJECTS.**

Explanation: A Record Descriptor (RCD) structured field in a page definition has requested PSF to generate a graphics object from the line data, but the printer does not support graphics objects.

System action: PSF ignores the request and continues processing the data set.

User response: To print the data set and have PSF generate graphics objects, submit the print job to a printer that supports graphics objects. For more information about AFP printers that support graphics objects, refer to *Printer Information*.

System programmer response: If the page definition is for a separator page, the message data set, or the default page definition for the user print data sets defined in the PSF startup procedure, delete the option from the page definition that requests that a graphics object be generated.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2007I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE FIELD RCD POINTER VALUE IN RCD STRUCTURED FIELD NUMBER *structured field number* **WILL CAUSE AN INFINITE LOOP.**

Explanation: The Field Record Descriptor Pointer value in the Record Descriptor (RCD) structured field identified in this message caused an infinite loop condition. The RCD structured field is contained in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error.

If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2008I	DATA IN A PAGEDEF RESOURCE IS NOT VALID: RCD OR XMD STRUCTURED FIELD NUMBER *structured field number* SPECIFIES A VALUE THAT IS NOT VALID AS A POINTER TO A FIELD RCD OR XMD. THE VALUE *parameter value1* EXCEEDS THE LNC STRUCTURED FIELD COUNT VALUE OF *parameter value2*.

Explanation: The Field Record Descriptor Pointer in the Record Descriptor (RCD) or XML Descriptor (XMD) structured field identified in this message has a value that is not valid. The value is greater than the Count value in the Line Descriptor Count (LNC) structured field in the current data map. The LNC, RCD, and XMD structured fields are in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2009I	DATA IN A PAGEDEF RESOURCE IS NOT VALID: RIGHT ALIGNMENT WAS REQUESTED ON RCD STRUCTURED FIELD NUMBER *structured field number*, BUT THE PRINTER DOES NOT SUPPORT RIGHT ALIGNMENT.

Explanation: A Record Descriptor (RCD) structured field in a page definition has requested that PSF right align a field from the line data, but the printer does not support the controls necessary for PSF to perform this function.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: To print the data set and have PSF right align fields, submit the print job to a printer that supports all four inline print directions and all four character rotations. For more information about inline print directions and character rotations supported by AFP printers, refer to *Printer Information*.

System programmer response: If the page definition is for a separator page, the message data set, or the default page definition for the user print data set, or the default page definition for the user print data sets defined in the PSF startup procedure, delete the option from the page definition that requests that a field be right aligned.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2010I	RECORD FORMATTING WAS REQUESTED BY THE PAGE DEFINITION BUT THAT FUNCTION IS NOT SUPPORTED BY THIS RELEASE OF PSF.

Explanation: The record formatting function is not supported by this release of PSF.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: To use the record formatting function, submit this job to a version of PSF that supports record formatting.

System programmer response: If the page definition is for a separator page, the message data set, or the default page definition for the user print data set, or the default page definition for the user print data sets defined in the PSF startup procedure, remove this page definition and select one that does not use the record formatting function.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2011I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: DATA MAP** *data map name1* **AND DATA MAP** *data map name2* **ARE FOR PROCESSING DIFFERENT TYPES OF DATA. ALL DATA MAPS IN THE PAGE DEFINITION MUST SPECIFY THE SAME DATA FORMATTING.**

Explanation: A page definition can only be used for one type of line data. A single page definition cannot be used to mix the processing of traditional, record-format, and XML line data.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2012I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: A NON-ZERO RECORD IDENTIFIER VALUE** *record identifier* **WAS SPECIFIED IN RCD STRUCTURED FIELD NUMBER** *structured field number***.**

Explanation: For Record Descriptor (RCD) structured fields that are marked as either a field or a conditional processing RCD, the record identifier value must be all zeros. The RCD structured fields are in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2013I **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE SAME RECORD IDENTIFIER VALUE** *record identifier* **WAS SPECIFIED IN RCD STRUCTURED FIELD NUMBERS** *structured field number1* **AND** *structured field number2***. ALL RECORD IDENTIFIERS MUST BE UNIQUE IN THE SAME DATA MAP.**

Explanation: All Record Descriptor (RCD) structured

fields in a data map must have a unique record identifier specified; with the exception of these RCD structured fields:

- Default Page Header
- Default Page Trailer
- Field
- Conditional Processing

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2014I   **DATA IN AN INPUT RECORD OR PAGEDEF RESOURCE IS NOT VALID: THE PAGE SIZE IS NOT LARGE ENOUGH TO PLACE THE FIRST RECORD OF THE PAGE BY USING RCD OR XMD STRUCTURED FIELD NUMBER** structured field number **AND ITS ASSOCIATED FIELD RCD OR XMD STRUCTURED FIELDS.**

Explanation: The Body Record Descriptor (RCD) or XML Descriptor (XMD) structured field selected for placing the first body record of the page does not fit within the area of the page defined by the bottom margin. If Field RCD or XMD structured fields are being used, one of the Field RCD or XMD structured fields might be positioning data beyond the bottom margin.

This error prevents PSF from being able to place the record and continuing.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2015I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: AN RCD STRUCTURED FIELD SPECIFIED A GRAPHICS DESCRIPTOR TRIPLET TO END ALL STARTED GRAPHICS DESCRIPTOR TRIPLETS THAT HAVE A MATCHING GRAPH ID VALUE OF** graphics identifier**, BUT A MATCH COULD NOT BE FOUND.**

Explanation: A graphics object can be started by one Record Descriptor (RCD) structured field and ended with another RCD structured field. When this is done, the Graphics Descriptor triplets that start and end a graphics object must have matching Graph ID parameter values specified and the RCD structured fields must have matching orientations. PSF could not find a match between the start and end Graphics Descriptor triplets using the Graphid parameter from the end Graphics Descriptor triplet and the Text Orientation parameter value from the RCD structured field.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See

Mixed Object Document Content Architecture Reference.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2016I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE USE RECORD IDENTIFIER FLAG WAS SET BUT THE SUM OF THE DATA START POSITION AND THE DATA LENGTH VALUES IN RCD STRUCTURED FIELD NUMBER** *structured field number* **SELECTS DATA BEYOND THE RECORD IDENTIFIER FIELD.**

Explanation: For Record Descriptor (RCD) structured field that are marked to use only the record identifier portion of an input record, only the record identifier can be accessed by the RCD. The Data Start value plus the Data Length value of this RCD accesses data beyond the 10-byte record identifier area of the input record.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the

structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2017I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: A FONT IS NEEDED FOR THE** *structured field name* **STRUCTURED FIELD IN DATA MAP** *data map name* **BUT NO FONTS WERE MAPPED IN THE DATA MAP.**

Explanation: Fonts needed for printing record format line data or XML data must be selected in the data map. The CHARS JCL parameter cannot be used to select fonts. The data map identified in this message contained a Record Descriptor (RCD) or an XML Descriptor (XMD) structured field that requires a font, but no fonts were specified in the data map.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2018I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: RCD STRUCTURED FIELD NUMBER *structured field number* **REQUESTED THAT THE PAGE NUMBER BE RESET, BUT THE PAGE NUMBER PARAMETER CONTAINS ZERO.**

Explanation: The page number parameter in a Record Descriptor (RCD) structured field cannot be zero when the RCD requests that PSF reset the page number.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2019I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE FONT SELECTED FOR PRINTING THE PAGE NUMBER ON RCD OR XMD STRUCTURED FIELD NUMBER *structured field number* **CANNOT BE A DOUBLE-BYTE FONT WHEN USING THE ASCII ENCODING SCHEME.**

Explanation: PSF cannot determine the correct code points to generate when a double-byte font is used to print the page number in the ASCII encoding scheme. The structured field identified in this message selected a double-byte ASCII font for printing the page number. This is not allowed.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. See *Mixed Object Document Content Architecture Reference*.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 27.

APS2020I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE OBJECT OID LENGTH SPECIFIED IN A FULLY QUALIFIED NAME TRIPLET ON AN *structured field* **STRUCTURED FIELD IS GREATER THAN 129 BYTES.**

Explanation: An object OID specified in a Fully Qualified Name triplet is longer than 129 bytes.

System action: PSF stops processing the current page, then tries to find the end of the current page and

to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set. If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2021I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE *structured field* **STRUCTURED FIELD CONTAINS UNPAIRED FQN X'BE' AND X'DE' TRIPLETS.**

Explanation: If this is an Include Object (IOB) or Preprocess Presentation Object (PPO) structured field, the Fully Qualified Name (FQN) triplet with an FQNType of Data Object Internal Resource Reference (X'BE') must immediately follow an FQN triplet with an FQNType of Data Object External Resource Reference (X'DE').

If this is a Map Data Resource (MDR) structured field, a repeating group with an FQN triplet type X'BE' must also include an FQN triplet type X'DE'.

System action: PSF cannot print the current page. PSF tries to find the end of the current page and resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

PSF issues a message identifying the position of the

structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2022I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A SECONDARY RESOURCE IDENTIFIED ON STRUCTURED FIELD *structured field* **IS NOT NAMED IN THE ENVIRONMENT GROUP.**

Explanation: If the structured field in error is an Include Object (IOB), the secondary resource must be named in a Map Data Resource (MDR) structured field in the Active Environment Group (AEG) of the page, overlay, or page definition containing the IOB structured field.

If the structured field in error is a Preprocess Presentation Object (PPO), the secondary resource must be named in an MDR structured field in the Resource Environment Group (REG) of the data set or page definition containing the PPO structured field.

If the structured field in error is a Line Descriptor (LND), Record Descriptor (RCD), or XML Descriptor (XMD), the secondary resource must be named in an MDR structured field in the AEG of the data map.

System action: If the object is in a page, PSF stops processing the page and continues processing the data set. If the object is in a resource, PSF stops processing and printing the data set.

If this error occurred in a REG, PSF stops processing the REG and continues processing the data set.

If this error occurred in a page definition, PSF stops processing the data set.

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User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field does not have an error, the error might be a PSF logic error. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS2023I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE FORMAT SPECIFIED IN AN FQN TRIPLET IS NOT VALID. THE STRUCTURED FIELD *structured field* **IS IN ERROR**

Explanation: FQNFmt specified in a Fully Qualified Name (FQN) triplet on the structured field specified in the message is not valid.

System action: PSF stops processing the current page, attempts to find the end of the current page, and then tries to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

If this error occurs in a resource or page definition, PSF stops processing the data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field does not have an error, the error might be a PSF logic error. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that

the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2024I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A FULLY QUALIFIED NAME TRIPLET MAPPED AN OBJECT THAT IS NOT ALLOWED IN AN MDR STRUCTURED FIELD IN AN OBJECT ENVIRONMENT GROUP.

Explanation: A Fully Qualified Name (FQN) triplet with an FQNType of Begin Resource Object Reference (X'84') or Other Object Data Reference (X'CE') is not allowed on a Map Data Resource (MDR) structured field in an Object Environment Group (OEG). In addition, an FQN triplet with an FQNType of Data Object External Resource Reference (X'DE') can only map a data object font or a color management resource (CMR) in a graphics object or a bar code object.

System action: PSF stops processing the current page, then tries to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for

the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2025I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN ERROR WAS FOUND IN A FULLY QUALIFIED NAME TRIPLET SPECIFIED IN A REPEATING GROUP ON AN** *structured field* **STRUCTURED FIELD.**

Explanation: One of these errors was found:

- More than one Fully Qualified Name triplet with one of these FQNTypes was found in a repeating group on an MDR structured field:
  - Begin Resource Object Reference (X'84')
  - Other Object Data Reference (X'CE')
  - Data Object External Resource Reference (X'DE')
  - Code Page Name Reference (X'85')

  More than one Fully Qualified Name triplet with one of these FQNTypes was found in a repeating group on a PPO structured field:
  - Begin Resource Object Reference (X'84')
  - Other Object Data Reference (X'CE')

- An FQNType that is not valid was specified on a Fully Qualified Name triplet on a Map Data Resource (MDR) structured field.

System action: PSF stops processing the current page, then tries to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set. If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the

operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2026I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE OBJECT CLASS SPECIFIED IN AN OBJECT CLASSIFICATION TRIPLET ON AN MDR STRUCTURED FIELD IS NOT VALID.**

Explanation: If the Fully Qualified Name triplet type in the repeating group is a Data Object External Resource Reference (X'DE'), the ObjClass specified in an Object Classification triplet on a Map Data Resource (MDR) structured field must be X'40' or X'41'. If the Fully Qualified Name triplet type in the repeating group is an Other Object Data Reference (X'CE'), the ObjClass specified must be X'01'.

System action: PSF stops processing the current page, then tries to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set. If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2027I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN MDR STRUCTURED FIELD SPECIFIES THE SAME RESOURCE REFERENCE MORE THAN ONCE IN AN ENVIRONMENT GROUP.

Explanation: The same resource reference cannot be made multiple times in a Map Data Resource (MDR) structured field in an environment group.

System action: PSF stops processing the current page, then tries to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set. If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2028I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE RESOURCE BEGINNING WITH THE *structured field* STRUCTURED FIELD CANNOT BE SENT TO THE PRINTER AS A HARD RESOURCE.

Explanation: Either the printer or your PSF does not support sending this resource to the printer prior to the page and treating it as a hard resource managed by PSF. A hard resource is sent to the printer once.

System action: PSF ignores this resource in the MDR and continues processing. The resource is treated as a

soft resource by PSF each time it is included in a page or resource. A soft resource is sent to the printer each time it is included.

User response: If the performance of the job is acceptable, do nothing. If the performance of the job is not acceptable, inform your system programmer.

System programmer response: This message indicates that the print data set was created with a certain level of resource management function expected. Either PSF or the printer does not have this level of resource management. Confirm the resource management capability of PSF and the printer to decide which one is deficient of the management function for this resource. If it is PSF, determine if an APAR or new release is available that provides the function and install it. If it is the printer, determine if the job could be sent to a different printer that has the function or if an engineering change (EC) is available to upgrade the microcode on this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Item 23.

APS2029I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: OBJECT OID *object oid1* DOES NOT MATCH THE OBJECT OID *object oid2* SPECIFIED ON THE *structured field* STRUCTURED FIELD.

Explanation: The object OID specified on a *structured field* structured field must match the object OID specified on the Map Data Resource (MDR) or Include Object (IOB) structured field that referred to it. A value of *** indicates an OID was not specified.

System action: PSF stops processing the current page, then tries to find the end of the current page and to resume printing on the next page. If unable to find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that

the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2030I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A SECONDARY RESOURCE THAT IS NOT A CMR IS SPECIFIED ON AN IOB STRUCTURED FIELD THAT INCLUDES A BAR CODE OR GRAPHICS OBJECT.

Explanation: A Fully Qualified Name (FQN) triplet of type Data Object External Resource Reference (X'DE') is specified in an Include Object (IOB) structured field that has a bar code or graphics object. Only color management resources (CMRs) are allowed as secondary resources for these objects.

System action: The secondary resource reference that is not a CMR is ignored and processing continues.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2032I DATA IN PAGEDEF RESOURCE *pagedef name* IS NOT VALID: THE RESOURCE BEGINNING WITH THE *structured field* STRUCTURED FIELD CANNOT BE SENT TO THE PRINTER AS A HARD RESOURCE.

Explanation: Either the printer or your PSF does not support sending this resource to the printer prior to the page and treating it as a hard resource managed by PSF. A hard resource is sent to the printer once.

System action: PSF ignores this resource in the MDR and continues processing. The resource is treated as a soft resource by PSF each time it is included in a page or resource. A soft resource is sent to the printer each time it is included.

User response: None.

System programmer response: None.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2035I TONER SAVER CONTROL WAS REQUESTED BUT TONER SAVER CONTROL IS NOT SUPPORTED BY THIS PRINTER. PROCESSING OF THE DATA SET CONTINUES.

Explanation: Toner saver control was requested but the printer does not support Toner saver control.

System action: The data set is processed without toner saver control.

User response: If you want toner fidelity, send the data to a printer that supports Toner saver control.

System programmer response: None.

Operator Response: None.

Problem determination: None.

APS2038I THE BAR CODE DATA OR THE BAR CODE DATA PLUS THE ADDITIONAL 2D BAR CODE PARAMETERS EXCEEDED THE OUTPUT COMMAND BUFFER.

Explanation: Either the bar code data itself or the bar code data plus the macro control block data specified for a 2D bar code exceeds the size of the output command buffer. The macro control block data is specified in your page definition as part of the BCXPARMS (additional bar code parameters).

System action: PSF issues this message and continues processing.

User response: Change the amount of data specified for your bar code or reduce the amount of data in the macro control block.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS2039I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A DUPLICATE FINISHING OPERATION WAS FOUND IN THE (***medium map name***) MEDIUM MAP.**

Explanation: The same finishing operation was specified more than once in a medium map. This nesting of the same finishing operation is not allowed. The Media Finishing Control (MFC) structured field is in a form definition or an internal medium map in the print data set.

System action: The error is in either the print data set or a resource. If the error is in the print data set, PSF stops processing the data set. If the error is in a resource, the resource is not used and one of these occurs:

- If the error is in the default form definition or a form definition specified for printing messages or separator pages, PSF is not started.
- If the error is in a form definition specified on the user's JCL OUTPUT statement, PSF cannot begin printing the data set; it tries to print the next data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2040I **THE NUMBER OF MEDIA COLLECTION FINISHING NESTING LEVELS IS MORE THAN 4.**

Explanation: You have exceeded the maximum levels of nesting allowed for media collection finishing. The Medium Finishing Control (MFC) structured field can be contained in a form definition or internal medium map in a page.

System action: PSF stops processing the data set.

User response: If you created the form definition or internal medium map, remove one or more levels of media collection finishing operations and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field.

If the total number of nesting levels is less than or equal to four, the error might be a PSF logic error.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates either that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17, 28.

APS2041I **DATA IN AN INPUT RECORD OR PAGEDEF RESOURCE IS NOT VALID: INPUT DATA BEING USED FOR A VARIABLE RESOURCE NAME IN LND OR RCD STRUCTURED FIELD** *structured field number* **IS DOUBLE BYTE EBCDIC, UTF16, OR UTF8 DATA.**

Explanation: A Resource Object Include triplet or an Extended Resource Local ID triplet on a Line Descriptor (LND) or Record Descriptor (RCD) structured field requests that input data is used as the name of the resource to be included. This input data cannot be double-byte EBCDIC, UTF16, or UTF8 data.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the print data set or page definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the

structured field. If the structured field is correct, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the print data set or page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates either that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2042I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: AN XML PAGE DEFINITION REQUESTED THAT THE INPUT DATA BE USED FOR A RESOURCE NAME ON XMD STRUCTURED FIELD NUMBER (***structured field number***).**

Explanation: An Object Reference Qualifier (ORQ) triplet has been specified on an XML Descriptor (XMD) structured field. This function is not supported when using an XML page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field is correct, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates either that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

APS2044I   **DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE FIELD XMD POINTER VALUE IN XMD STRUCTURED FIELD NUMBER ***structured field number*** WILL CAUSE AN INFINITE LOOP.**

Explanation: The Field XML Descriptor Pointer value in the XML Descriptor (XMD) structured field identified in this message caused an infinite loop condition. The XMD structured field is contained in the page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field is correct, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2045I   **THE USER DATA ENCODING SCHEME SPECIFIED IN A PAGE DEFINITION IS NOT SUPPORTED BY PSF.**

Explanation: The encoding scheme specified is not supported by PSF.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: You need to use an encoding scheme that is supported by PSF. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition,

contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2046I   XML DATA FORMATTING WAS REQUESTED BY THE PAGE DEFINITION BUT THAT FUNCTION IS NOT SUPPORTED BY THIS RELEASE OF PSF.

Explanation: The XML Data formatting function is not supported by this release of PSF.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: To use the XML Data formatting function, submit this job to a version of PSF that supports XML Data formatting.

System programmer response: If the page definition is for a separator page or the message data set, is the JES default page definition for the user print data set, or is the default page definition defined in the PSF startup procedure for the user print data set, remove this page definition and select one that does not use the record formatting function.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2047I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: DATA MAP *data map name1* **AND DATA MAP** *data map name2* **HAVE DIFFERENT ENCODING SCHEMES SPECIFIED FOR THE USER DATA. ALL DATA MAPS IN THE PAGE DEFINITION MUST SPECIFY THE SAME ENCODING SCHEME.**

Explanation: All the data maps in a page definition

must use the same encoding scheme for the user data.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field is correct, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2048I   DATA IN AN INPUT RECORD IS NOT VALID: A DTD DECLARATION AT CHARACTER COUNT NUMBER *character count* **IS SPECIFIED OUTSIDE OF A DTD.**

Explanation: A document type definition (DTD) declaration is only allowed inside a DTD. The character count number specified in this message is relative to the start of the record.

System action: PSF stops processing the current data set and issues a message identifying the position of the error in the input data stream. PSF issues additional messages that identify the processing environment when the error was found.

User response: If you created the XML data, correct the error and resubmit the print request. Refer to the XML specification *Extensible Markup Language (XML)* on the World Wide Web Consortium Web site, www.w3.org. If the XML data has no error, the error might be a PSF logic error. If you used a program to create the XML data, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the XML data with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages, use the information

provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print error messages. Inform your system programmer.

Problem determination: None.

APS2049I DATA IN AN INPUT RECORD IS NOT VALID: THE XML COMMENT SYNTAX AT CHARACTER COUNT NUMBER *character count* **IS NOT VALID.**

Explanation: Once an XML comment has been started, you can only use two dashes in a row when ending a comment. The character count number specified in this message is relative to the start of the record.

System action: PSF stops processing the current data set and issues a message identifying the position of the error in the input data stream. PSF issues additional messages that identify the processing environment when the error was found.

User response: If you created the XML data, correct the error and resubmit the print request. Refer to the XML specification *Extensible Markup Language (XML)* on the World Wide Web Consortium Web site, www.w3.org. If the XML data has no error, the error might be a PSF logic error. If you used a program to create the XML data, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the XML data with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print error messages. Inform your system programmer.

Problem determination: None.

APS2050I DATA IN AN INPUT RECORD IS NOT VALID: THE XML END TAG AT CHARACTER COUNT NUMBER *character count* **DOES NOT MATCH THE LAST START TAG.**

Explanation: An XML end tag must exactly match its start tag. The character count number specified in this message is relative to the start of the record.

System action: PSF stops processing the current data set and issues a message identifying the position of the error in the input data stream. PSF issues additional

messages that identify the processing environment when the error was found.

User response: If you created the XML data, correct the error and resubmit the print request. Refer to the XML specification *Extensible Markup Language (XML)* on the World Wide Web Consortium Web site, www.w3.org. If the XML data has no error, the error might be a PSF logic error. If you used a program to create the XML data, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the XML data with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print error messages. Inform your system programmer.

Problem determination: None.

APS2051I DATA IN AN INPUT RECORD IS NOT VALID: THE END OF A DOCUMENT TYPE DECLARATION AT CHARACTER COUNT NUMBER *character count* **IS NOT THE CORRECT SYNTAX.**

Explanation: The end of a document type declaration did not have the correct syntax. The character count number specified in this message is relative to the start of the record.

System action: PSF stops processing the current data set and issues a message identifying the position of the error in the input data stream. PSF issues additional messages that identify the processing environment when the error was found.

User response: If you created the XML data, correct the error and resubmit the print request. Refer to the XML specification *Extensible Markup Language (XML)* on the World Wide Web Consortium Web site, www.w3.org. If the XML data has no error, the error might be a PSF logic error. If you used a program to create the XML data, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the XML data with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print error messages. Inform your system programmer.

Problem determination: None.

**APS2052I   DATA IN AN INPUT RECORD IS NOT
             VALID: THE CHARACTER CODE AT
             CHARACTER COUNT NUMBER**
             character count **IS NOT A VALID VALUE
             FOR A CHARACTER REFERENCE.**

Explanation: A character code inside a character
reference is not one of the allowed values. The
character count number specified in this message is
relative to the start of the record.

System action: PSF stops processing the current data
set and issues a message identifying the position of the
error in the input data stream. PSF issues additional
messages that identify the processing environment
when the error was found.

User response: If you created the XML data, correct
the error and resubmit the print request. Refer to the
XML specification *Extensible Markup Language (XML)*
on the World Wide Web Consortium Web site,
www.w3.org. If the XML data has no error, the error
might be a PSF logic error. If you used a program to
create the XML data, contact your system programmer.

System programmer response: If an IBM licensed
program was used to create the XML data with the
error, verify that the input to that program was valid. If
the input was valid, refer to *PSF for z/OS: Diagnosis* for
assistance in determining the source of the problem. If
the error involves separator pages, use the information
provided in the User Response section to correct the
error.

Operator Response: If this message displays on the
operator's console, it indicates that PSF cannot be
initialized or cannot print error messages. Inform your
system programmer.

Problem determination: None.

**APS2053I   DATA IN AN INPUT RECORD IS NOT
             VALID: THE ENTITY AT CHARACTER
             COUNT NUMBER** *character count* **IS
             NOT DEFINED IN THE DOCUMENT
             TYPE DEFINITION.**

Explanation: PSF only allows internal general entity
references that must be defined in an internal document
type definition (DTD). The character count number
specified in this message is relative to the start of the
record.

System action: PSF stops processing the current data
set and issues a message identifying the position of the
error in the input data stream. PSF issues additional
messages that identify the processing environment
when the error was found.

User response: If you created the XML data, correct
the error and resubmit the print request. Refer to the
XML specification *Extensible Markup Language (XML)*

on the World Wide Web Consortium Web site,
www.w3.org. If the XML data has no error, the error
might be a PSF logic error. If you used a program to
create the XML data, contact your system programmer.

System programmer response: If an IBM licensed
program was used to create the XML data with the
error, verify that the input to that program was valid. If
the input was valid, refer to *PSF for z/OS: Diagnosis* for
assistance in determining the source of the problem. If
the error involves separator pages, use the information
provided in the User Response section to correct the
error.

Operator Response: If this message displays on the
operator's console, it indicates that PSF cannot be
initialized or cannot print error messages. Inform your
system programmer.

Problem determination: None.

**APS2054I   DATA IN AN INPUT RECORD IS NOT
             VALID: THE CHARACTER IN A TAG
             NAME AT CHARACTER COUNT
             NUMBER** *character count* **IS NOT VALID.**

Explanation: A character in an XML tag name is not
valid. The character count number specified in this
message is relative to the start of the record.

System action: PSF stops processing the current data
set and issues a message identifying the position of the
error in the input data stream. PSF issues additional
messages that identify the processing environment
when the error was found.

User response: If you created the XML data, correct
the error and resubmit the print request. Refer to the
XML specification *Extensible Markup Language (XML)*
on the World Wide Web Consortium Web site,
www.w3.org. If the XML data has no error, the error
might be a PSF logic error. If you used a program to
create the XML data, contact your system programmer.

System programmer response: If an IBM licensed
program was used to create the XML data with the
error, verify that the input to that program was valid. If
the input was valid, refer to *PSF for z/OS: Diagnosis* for
assistance in determining the source of the problem. If
the error involves separator pages, use the information
provided in the User Response section to correct the
error.

Operator Response: If this message displays on the
operator's console, it indicates that PSF cannot be
initialized or cannot print error messages. Inform your
system programmer.

Problem determination: None.

APS2055I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE ENCODING SCHEME IDENTIFIER FOR THE USER DATA IS NOT SPECIFIED IN THE ENCODING SCHEME TRIPLET ON THE BDM STRUCTURED FIELD.

Explanation: The Encoding Scheme Identifer for User Data (ESidUD) is missing on the Encoding Scheme triplet (X'50') on a Begin Data Map (BDM) structured field. This information is required when processing an XML page definition.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: You need to provide the encoding scheme for the user data. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2056I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: THE SAME QUALIFIED TAG WAS SPECIFIED IN XMD STRUCTURED FIELD NUMBERS *structured field number1* **AND** *structured field number2*. **ALL QUALIFIED TAGS MUST BE UNIQUE IN THE SAME DATA MAP.**

Explanation: All XML Descriptor (XMD) structured fields in a data map must have a unique qualified tag specified, with the exception of these types of XMD structured fields:
- Default Page Header
- Default Page Trailer
- Field
- Conditional Processing

- Attribute

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2057I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: RELATIVE INLINE POSITIONING ON AN XMD STRUCTURED FIELD CAN ONLY BE USED TO PLACE TEXT DATA.

Explanation: A Resource Object Include, Extended Resource Local ID, Bar Code Symbol Descriptor, or Graphics Descriptor triplet that uses relative inline positioning is specified on an XML Descriptor (XMD) structured field. You must use absolute inline positioning when including a page segment, overlay or object with an XMD structured field. You must also use absolute inline positioning when generating a bar code or graphics object with an XMD structured field.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: You need to change your inline positioning to an absolute value. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* and *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition,

contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2058I   YOU HAVE REQUESTED PSF'S SIDE AND EDGE SENSITIVE PAPER HANDLING BUT THE PRINTER OR INPUT BIN NUMBER *bin_number***, WHICH WAS SPECIFIED FOR DUPLEX PRINTING, CANNOT HANDLE DUPLEX.**

Explanation: Duplex printing was requested but is not supported by the printer or the input bin that was specified. The support for duplex might not be installed on this printer or it might be disabled. Since side and edge sensitive paper handling has been specified, PSF does not try to do any bin substitution.

System action: PSF stops processing the current data set and issues a message identifying the position of the error in the input data stream. PSF issues additional messages that identify the processing environment when the error was found. It then releases the current data set back to JES and requests that it be held by the system.

User response: If the printed output is not acceptable, contact your system programmer.

System programmer response: If the bin number specified in installation Exit 7 for printing duplex is correct, submit this print request to a printer that can print duplex from the requested bin.

If the bin number specified in installation Exit 7 for printing duplex does not exist or is incorrect for the printer you are using, change your installation Exit 7 to specify the correct bin.

Operator Response: If you are running under JES, use the JES data set release commands to release the data set to a printer that supports this function. To find a JES command to release the data set for printing, refer to the JES publication for the level of JES you are using.

Problem determination: None.

APS2059I   YOU HAVE REQUESTED PSF'S SIDE AND EDGE SENSITIVE PAPER HANDLING BUT INPUT BIN NUMBER *bin_number***, WHICH WAS SPECIFIED FOR SIMPLEX OR DUPLEX PRINTING, CANNOT BE FOUND OR IS DISABLED.**

Explanation: PSF was directed to use bin number *bin_number* instead of the one specified in the form definition or JCL, but PSF cannot find that bin on this printer or it is disabled. Since side and edge sensitive paper handling has been specified, PSF does not try to do any bin substitution.

System action: PSF stops processing the current data set and issues a message identifying the position of the error in the input data stream. PSF issues additional messages that identify the processing environment when the error was found. It then releases the current data set back to JES and requests that it be held by the system.

User response: If the printed output is not acceptable, contact your system programmer.

System programmer response: If the bin number specified in the installation Exit 7 for printing simplex or duplex is correct, submit this print request to a printer that has this bin enabled or enable this bin on the printer being used.

If the bin number specified in installation Exit 7 for printing simplex or duplex does not exist or is incorrect for the printer you are using, change installation Exit 7 to specify the correct bin.

Operator Response: If you are running under JES, use the JES data set release commands to release the data set to a printer that supports this function. To find a JES command to release the data set for printing, refer to the JES commands publication for the level of JES you are using.

Problem determination: None.

APS2062I   THE ORIENTATION REQUIRED FOR THIS IPS STRUCTURED FIELD DOES NOT MATCH THAT OF THE PAGE SEGMENT LOADED IN THE PRINTER. PSF MUST REPROCESS *member name* **PAGE SEGMENT IN THE NEW ORIENTATION AS A SOFT PAGE SEGMENT. THIS MIGHT REQUIRE MORE PROCESSING TIME.**

Explanation: This print job might require additional processing time because PSF must reprocess one or more page segments. When PSF is processing page segments with IM1 images and the resolution of the IM1 image does not match the resolution of the printer, PSF automatically converts the IM1 image into IOCA during Map Page Segment (MPS) structured field processing and then loads it in the printer. PSF converts the image so it appears at the intended size. During this

conversion, PSF does not know the orientation planned for the image and assumes the image is to be used at 0,90 degree orientation.

When PSF is processing the Include Page Segment (IPS) structured field, if the image orientation for the page segment is not 0,90 degrees, PSF reprocesses the page segment as a soft page segment in the required orientations and issues this message. *Member name* in the message indicates the name of the page segment being processed when PSF encountered this condition.

System action: PSF continues processing the print data, but the processing might require additional time because of the soft page segment processing.

User response: Do one of these:

- If the print performance is not affected and is acceptable, you can continue to print this data as is. You continue to receive this message unless you suppress it using PIMSG=NO on the OUTPUT JCL statement for this print job. PIMSG=NO lets you suppress message reporting for conditions other than errors that cause PSF to stop printing the print data.

- If print performance is affected and is unacceptable, you can do one of these:

  - Only print this data on a printer that has (or is set to) a resolution that matches the intended resolution of the IM1 image.

  - Convert the IM1 images in this print file to IOCA images. The AFP Conversion and Indexing Facility (ACIF) can perform this conversion for you.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS2063I **GROUP-LEVEL MEDIUM FINISHING WAS REQUESTED BUT IS NOT SUPPORTED BY THE PRINTER. PROCESSING OF THE DATA SET IS TERMINATED.**

Explanation: A Document Environment Group or medium map in the current form definition contains a Medium Finishing Control (MFC) structured field but the printer does not support group-level MFCs.

System action: PSF stops processing the data set because the finishing fidelity specified in the form definition had a continuation rule of STOP (X'01'). Finishing fidelity is requested by specifying the Finishing Fidelity triplet (X'88') on the Presentation Fidelity Control (PFC) structured field.

PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you want the medium finishing applied to this data set, have the operator reroute the data set to a printer that supports group-level medium finishing. If the system does not hold the data set, resubmit it to a printer that supports group-level medium finishing.

If you want the data set to print without the medium finishing operations applied, update the form definition to specify a finishing fidelity continuation rule of DO NOT STOP (X'02'). If you used a program to create the structured fields for the form definition, refer to the documentation for that program for information about changing the finishing fidelity setting. If you created the structured fields for the form definition, refer to *Mixed Object Document Content Architecture Reference* for more information.

System programmer response: No response is necessary.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2064I **SHEET-LEVEL MEDIUM FINISHING WAS REQUESTED BUT IS NOT SUPPORTED BY THE PRINTER. PROCESSING OF THE DATA SET IS TERMINATED.**

Explanation: A medium map in the current form definition contains a Medium Finishing Control (MFC) structured field but the printer does not support sheet-level MFCs.

System action: PSF stops processing the data set because the finishing fidelity specified in the form definition had a continuation rule of STOP (X'01'). Finishing fidelity is requested by specifying the Finishing Fidelity triplet (X'88') on the Presentation Fidelity Control (PFC) structured field. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you want the medium finishing applied to this data set, have the operator reroute the data set to a printer that supports sheet-level medium finishing. If the system does not hold the data set, resubmit it to a printer that supports sheet-level medium finishing.

If you want the data set to print without the medium finishing operations applied, update the form definition to specify a finishing fidelity continuation rule of DO NOT STOP (X'02'). If you used a program to create the

structured fields for the form definition, refer to the documentation for that program for information about changing the finishing fidelity setting. If you created the structured fields for the form definition, refer to *Mixed Object Document Content Architecture Reference* for more information.

System programmer response: No response is necessary.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2065I   DATA IN A FORM DEFINITION IS NOT SUPPORTED: UP3I FINISHING WAS REQUESTED BUT IS NOT SUPPORTED BY THE PRINTER. PROCESSING OF THE DATA SET CONTINUES.

Explanation: The form definition specified a Universal Printer Pre- and Postprocessing Interface (UP3I) finishing operation but the printer does not support UP3I finishing.

System action: The UP3I triplets are ignored and processing continues because of one of these:

- The form definition specified a finishing exception continuation rule of DO NOT STOP (X'02') and a finishing exception reporting rule of REPORT (X'01').

- The form definition did not specify any finishing fidelity.

PSF issues additional messages identifying the processing environment in which the error occurred.

Finishing fidelity is requested by specifying the Finishing Fidelity triplet (X'88') on the Presentation Fidelity Control (PFC) structured field.

User response: If you want to suppress error messages related to finishing, specify a finishing exception continuation rule of DO NOT STOP (X'02') and a finishing exception reporting rule of DO NOT REPORT (X'02') in the form definition. Refer to *Mixed Object Document Content Architecture Reference* for more information about the PFC structured field and the Finishing Fidelity triplet (X'88').

If the output is unacceptable, do one of these:

- Submit the print job to a printer that supports UP3I and the specific finishing operations specified by the print job.

- Specify a finishing exception continuation rule of STOP (X'01') in the form definition for the print job to stop printing the job when finishing errors are reported.

System programmer response: No response is necessary.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2066I   DATA IN A FORM DEFINITION IS NOT SUPPORTED: UP3I FINISHING WAS REQUESTED BUT IS NOT SUPPORTED BY THE PRINTER. PROCESSING OF THE DATA SET IS TERMINATED.

Explanation: The form definition specified a Universal Printer Pre- and Postprocessing Interface (UP3I) finishing operation but the printer does not support UP3I finishing.

System action: PSF stops processing the data set because the form definition specified a finishing exception continuation rule of STOP (X'01'). PSF issues additional messages identifying the processing environment in which the error occurred, ends the print job, marks the data set unprintable, and returns the data set to JES to be marked as held for release by the operator. Processing continues with the next data set.

Finishing fidelity is requested by specifying the Finishing Fidelity triplet (X'88') on the Presentation Fidelity Control (PFC) structured field.

User response: If the output is unacceptable, do one of these:

- Submit the print job to a printer that supports UP3I and the specific finishing operations specified by the print job.

- Specify a finishing exception continuation rule of DO NOT STOP (X'02') with a finishing exception reporting rule of DO NOT REPORT (X'02') in the form definition for the print job. This tells PSF to print the job and not report any finishing errors.

- Specify a finishing exception continuation rule of DO NOT STOP (X'02') with a finishing exception reporting rule of REPORT (X'01') in the form definition for the print job. This tells PSF to print the job and report any finishing errors that occurred while printing.

- Do not specify the Finishing Fidelity triplet (X'88') in the form definition for the print job. This tells PSF to print the job and report any finishing errors that occurred while printing.

System programmer response: No response is necessary.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2067I   **DATA IN A FORM DEFINITION IS NOT SUPPORTED: AFP FINISHING WAS REQUESTED BUT IS NOT SUPPORTED BY THE PRINTER. PROCESSING OF THE DATA SET CONTINUES.**

Explanation: The form definition specified an AFP finishing operation but the printer does not support AFP finishing.

System action: The AFP triplets are ignored and processing continues because of one of these:
- The form definition specified a finishing exception continuation rule of DO NOT STOP (X'02') and a finishing exception reporting rule of REPORT (X'01').
- The form definition did not specify any finishing fidelity.

PSF issues additional messages identifying the processing environment in which the error occurred.

Finishing fidelity is requested by specifying the Finishing Fidelity triplet (X'88') on the Presentation Fidelity Control (PFC) structured field.

User response: If you want to suppress error messages related to finishing, specify a finishing exception continuation rule of DO NOT STOP (X'02') and a finishing exception reporting rule of DO NOT REPORT (X'02') in the form definition. Refer to *Mixed Object Document Content Architecture Reference* for more information about the PFC structured field and the Finishing Fidelity triplet (X'88').

If the output is unacceptable, do one of these:
- Submit the print job to a printer that supports UP3I and the specific finishing operations specified by the print job.
- Specify a finishing exception continuation rule of STOP (X'01') in the form definition for the print job to stop printing the job when finishing errors are reported.

System programmer response: No response is necessary.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2068I   **DATA IN A FORM DEFINITION IS NOT SUPPORTED: AFP FINISHING WAS REQUESTED BUT IS NOT SUPPORTED BY THE PRINTER. PROCESSING OF THE DATA SET IS TERMINATED.**

Explanation: The form definition specified an AFP finishing operation but the printer does not support AFP finishing.

System action: PSF stops processing the data set because the form definition specified a finishing exception continuation rule of STOP (X'01'). PSF issues additional messages identifying the processing environment in which the error occurred, stops the print job, marks the data set unprintable, and returns the data set to JES to be marked as held for release by the operator. Processing continues with the next data set.

Finishing fidelity is requested by specifying the Finishing Fidelity triplet (X'88') on the Presentation Fidelity Control (PFC) structured field.

User response: If the output is unacceptable, do one of these:
- Submit the print job to a printer that supports AFP finishing and the specific finishing operations specified by the print job.
- Specify a finishing exception continuation rule of DO NOT STOP (X'02') with a finishing exception reporting rule of DO NOT REPORT (X'02') in the form definition for the print job. This tells PSF to print the job and not report any finishing errors.
- Specify a finishing exception continuation rule of DO NOT STOP (X'02') with a finishing exception reporting rule of REPORT (X'01') in the form definition for the print job. This tells PSF to print the job and report any finishing errors that occurred while printing.
- Do not specify the Finishing Fidelity triplet (X'88') in the form definition for the print job. This tells PSF to print the job and report any finishing errors that occurred while printing.

System programmer response: No response is necessary.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2069I   **SYSTEM ACTION TAKEN: PRINTING HAS STOPPED AND THE DATA SET IS BEING HELD BECAUSE YOU SPECIFIED DO NOT CONTINUE IN THE FORM DEFINITION AND FINISHING ERRORS WERE RECEIVED.**

Explanation: The form definition specifies a finishing

operation that the printer does not support and a finishing exception continuation rule of STOP (X'01').

Finishing fidelity is requested by specifying the Finishing Fidelity triplet (X'88') on the Presentation Fidelity Control (PFC) structured field.

System action: PSF stops processing the data set because the form definition specified a finishing exception continuation rule of STOP (X'01'). PSF issues additional messages identifying the processing environment in which the error occurred, stops the print job, marks the data set unprintable, and returns the data set to JES to be marked as held for release by the operator. Processing continues with the next data set.

User response: If the output is unacceptable, do one of these:

- Submit the print job to a printer that supports UP3I and the specific finishing operations specified by the print job.
- Specify a finishing exception continuation rule of DO NOT STOP (X'02') with a finishing exception reporting rule of DO NOT REPORT (X'02') in the form definition for the print job. This tells PSF to print the job and not report any finishing errors.
- Specify a finishing exception continuation rule of DO NOT STOP (X'02') with a finishing exception reporting rule of REPORT (X'01') in the form definition for the print job. This tells PSF to print the job and report any finishing errors that occurred while printing.
- Do not specify the Finishing Fidelity triplet (X'88') in the form definition for the print job. This tells PSF to print the job and report any finishing errors that occurred while printing.

System programmer response: No response is necessary.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2071I   A TRUETYPE OR OPENTYPE FONT WAS SPECIFIED BUT THESE FONTS ARE NOT SUPPORTED BY THE PRINTER OR PSF.

Explanation: The printer or PSF does not support TrueType and OpenType fonts.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found. PSF releases the current data set back to JES and requests that it be held by the system, unless PRTERROR=QUIT is specified on the OUTPUT statement.

User response: If you have PSF 3.4 or higher

installed, submit this job to a printer that supports TrueType and OpenType fonts. For information about what object types your printer supports, refer to your printer's documentation. To determine the release of PSF, contact your system programmer.

System programmer response: This message indicates that the print data set contains TrueType or OpenType fonts. Either PSF or the printer does not support these types of fonts. Confirm the font support of PSF and the printer to decide which one does not support these fonts:

- If your release of PSF is lower than 3.4, install PSF 3.4 or higher.
- If the printer does not support this function, determine if the job could be sent to a different printer that has the function or if an engineering change (EC) is available to upgrade the microcode on this printer. To determine the printer's level of support, use PSF's Display Printer Information function. If X'F204' (Data Object Font support) is returned in the Sense Type and Model (STM) reply, the printer supports this function.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2072I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN INCORRECT COMBINATION OF TRIPLETS WAS SPECIFIED WHEN MAPPING A DATA OBJECT FONT IN AN MDR STRUCTURED FIELD.

Explanation: When mapping a data object font (DOF) in a Map Data Resource (MDR) structured field, you must have Fully Qualified Name (FQN) type X'DE', FQN type X'BE', and DOF descriptor X'8B' triplets specified as well. In addition, the FQN type X'BE' triplet must specify a one-byte local ID.

System action: PSF stops processing the current page, then tries to find the end of the current page and resume printing on the next page. If it cannot find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set. If this error occured in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to

create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2073I DATA IN AN INPUT RECORD IS NOT VALID. THE FULLY QUALIFIED NAME TRIPLET TYPE AND THE OBJECT TYPE SPECIFIED IN A REPEATING GROUP ON A PREPROCESS PRESENTATION OBJECT STRUCTURED FIELD DO NOT AGREE.

Explanation: When a repeating group in a Preprocess Presentation Object (PPO) structured field is mapping an object container, you must use a Fully Qualified Name triplet of type X'CE'. When the repeating group is mapping an IOCA object or an overlay, you must use a Fully Qualified Name triplet of type X'84'.

System action: PSF stops processing the Resource Environment Group and continues processing the data set. As a result, the object is not be rasterized until it is actually included in the page or overlay with an Include Object (IOB) or Include Page Overlay (IPO) structured field.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS2074I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN MDR STRUCTURED FIELD IS MAPPING THE NAME OF A TRUETYPE OR OPENTYPE COLLECTION.

Explanation: When mapping data object fonts, you can only specify the name of a TrueType or OpenType font. This font might actually reside in a collection, but the Map Data Resource (MDR) structured field needs the font name in the collection.

System action: PSF stops processing the current page, then tries to find the end of the current page and resume printing on the next page. If it cannot find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. It is posssible that the problem is the object type OID specified in the X'10' object classification triplet. It might specify that a TrueType or OpenType collection is being mapped when a font has really been mapped. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field.

If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2075I   TRCS ARE NOT ALLOWED WITH A PAGE THAT HAS FONTS MAPPED IN BOTH AN MCF AND AN MDR. THE DATA MAP BEING PROCESSED IS *data map name***.**

Explanation: You can use table reference characters (TRCs) with fonts mapped in a Map Coded Font (MCF) structured field (FOCA fonts) or with fonts mapped in a Map Data Resource (MDR) structured field (TrueType or OpenType fonts). However, you cannot have a mixture of both types of fonts in a data map and use TRCs.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: Change your page definition to use either all FOCA fonts or all TrueType or OpenType fonts.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2077I   DATA IN AN INPUT RECORD IS NOT VALID: AN INLINE TRUETYPE OR OPENTYPE COLLECTION DOES NOT HAVE ANY BASE FONTS SPECIFIED.

Explanation: The Begin Resource (BRS, also called BR) structured field must have Fully Qualified Name type X'6E' triplets for each base font contained in the collection.

System action: PSF skips the inline resource and continues processing. This can lead to a resource not being found or a system resource being used instead.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error

involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: None.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2078I   DATA IN AN INPUT RECORD IS NOT VALID: AN INLINE RESOURCE HAS AN INCORRECT SPECIFICATION OF BASE FONTS, LINKED FONTS, OR MAPPED CMRS.

Explanation: A Begin Resource (BRS, also called BR) structured field has an error. Base fonts (Fully Qualified Name type X'6E' triplets) can only be specified for TrueType or OpenType collections. Linked fonts (Fully Qualified Name type X'7E' triplets) can only be specified for a TrueType or OpenType font or for a base font of a TrueType or OpenType collection. Mapped CMRs (Fully Qualified Name type X'41' triplets) can only be specified for color management resources (CMRs).

System action: PSF skips the inline resource and continues processing. This can lead to a resource not being found or a system resource being used instead.

User response: If you created the structured fields for the print data set, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture ReferenceMixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: None.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2079I   THE NUMBER OF LINKED FONTS FOR A TRUETYPE OR OPENTYPE FONT *resource name* **CAUSES THE ACTIVATE RESOURCE REQUEST TO EXCEED THE OUTPUT COMMAND BUFFER.**

Explanation: The number of linked fonts for a TrueType or OpenType font caused the activation

request to exceed the size of the output command buffer.

System action: PSF stops processing the current page, then tries to find the end of the current page and resume printing on the next page. If it cannot find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set.

User response: Decrease the number of linked fonts for your TrueType or OpenType font to the minimum necessary to print your data.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2080I   **INPUT DATA (***input data***) CANNOT BE CONVERTED TO AN ENCODING of CCSID (***ccsid***). RETURN CODE** *return code* **AND REASON CODE** *reason code* **VALUES WERE RETURNED BY THE CONVERTER.**

Explanation: PSF must convert the input data to the specified encoding to continue processing. An error occurred during this conversion.

If the input data is a resource name, the CCSID is 1200. Any other CCSID indicates that mixed single-byte or double-byte EBCDIC data is being converted to mixed single-byte or double-byte ASCII data for a QR Code bar code. If the error occurs on data for a bar code, the message shows only the first 50 bytes of the data.

The system's conversion services can return these return codes and reason codes:

Return Code 4

> **Reason Code 1**
>> The converted name exceeded the maximum character size.

> **Reason Code 3 or 4**
>> The SET UNI command is running, which changes the conversion environment.

Reason Code 6
> A character was found that cannot be converted.

Reason Code 7
> The string to be converted contains a multibyte character that is missing characters.

Reason Code 9
> An indirect character conversion error was found.

Return Code 8

> **Reason Code 3**
>> The specified conversion is not supported in the active conversion image.

> **Reason Code 5**
>> The sub code page number is not in the valid range of numbers for the specified conversion.

Return Code 12

> **Reason Code 1**
>> No conversion environment is set up. Issue a SET UNI command.

> **Reason Code 2**
>> Conversion services are not available.

System action: PSF stops processing the current page, then tries to find the end of the current page and resume printing on the next page. If it cannot find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

User response: The user response varies, depending on the return and reason codes issued:

- For return code 4, reason codes 3 and 4, try processing your data set again. For other reason codes, check the encoding of the input data.
- For return code 8, check with your system operator for valid values for the conversion images available on your system.
- For return code 12, an IPL is required with the correct SET UNI command.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

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Look at the return and reason code to verify that there is no problem with the system's conversion services. If there is a problem with the conversion services, refer to *z/OS Support for Unicode: Using Unicode Services* for instructions to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2081I   YOUR PRINTER OR PSF DOES NOT SUPPORT PREPROCESSING AND CACHING A RESOURCE.

Explanation: The print data set requested a resource be preprocessed and cached. This request is made with the Preprocess Presentation Object (PPO) structured field in a Resource Environment Group. Either the printer or your level of PSF does not support this function.

System action: PSF ignores this preprocess request and continues processing. As a result, the object is not rasterized until it is actually included in the page or overlay with an Include Object (IOB) structured field.

User response: If the performance of the job is acceptable, do nothing. If the performance of the job is not acceptable, inform your system programmer.

System programmer response: This message indicates that the print data set was created with a certain level of resource management function expected. Either PSF or the printer does not have this level of resource management. Confirm the resource management capability of PSF and the printer to decide which one is deficient of the management function for this resource.

If your release of PSF is lower than 3.4, install PSF 3.4 or higher.

If the printer does not support this function, determine if the job could be sent to a different printer that has the function, or if an engineering change (EC) is available to upgrade the microcode on this printer. To determine the printer's level of support, use PSF's Display Printer Information function. If X'707B' (Rasterize Presentation Object (RPO) command support) is returned in the Sense Type and Model (STM) reply, the printer supports this function.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2082I   DATA IN AN INPUT RECORD IS NOT VALID. RESOURCE NAME *resource name* **OR OBJECT OID** *oid* **IS SPECIFIED ON A PREPROCESS PRESENTATION OBJECT (PPO) STRUCTURED FIELD BUT IS NOT MAPPED IN THE RESOURCE ENVIRONMENT GROUP.**

Explanation: All resources specified on a PPO structured field must be mapped in the Resource Environment Group (REG). Overlays must be mapped with a Map Page Overlay (MPO) structured field. IOCA image and object containers must be mapped with a Map Data Resource (MDR) structured field.

System action: PSF stops processing the REG and continues processing the data set. As a result, the object is not rasterized until it is actually included with an Include Object (IOB) or Include Page Overlay (IPO) structured field.

User response: If you created the structured fields for the print data set or the resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the print data set or the resource, contact your system programmer.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error. If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 17.

APS2083I   DATA IN A PAGEDEF RESOURCE IS NOT VALID: DATA MAP *data map name* **HAS RECORD FORMAT IDS THAT ARE NOT THE SAME LENGTH.**

Explanation: All the record format IDs for a data map in a page definition must be the same length. Blanks can be used in the record format ID to make it the required length.

System action: PSF stops processing the current data set and issues additional messages that identify the

processing environment when the error was found.

User response: If you created the structured fields for the page definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field is correct, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the page definition with the error, verify that the input to that program is valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS2084I **DATA IN AN INPUT RECORD IS NOT VALID: THE PAGE DEFINITION HAD A USER DATA TYPE OF UTF16 SPECIFIED BUT THE RECORD LENGTH WAS AN ODD NUMBER OF BYTES ON RECORD NUMBER** *record number***.**

Explanation: UTF16 data encodings have two bytes for each character. Therefore, the record length must be a multiple of 2.

System action: PSF stops processing the current data set and issues a message identifying the position of the error in the input data stream. PSF issues additional messages that identify the processing environment when the error was found.

User response: If you created the data, correct the error and resubmit the print request. If the data has no error, the error might be a PSF logic error. If you used a program to create the data, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the data with the error, verify that the input to that program is valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print error messages. Inform your system programmer.

Problem determination: None.

APS2085I **DATA IN A FORM DEFINITION IS NOT SUPPORTED: PRINT JOB FINISHING WAS REQUESTED BUT IS NOT SUPPORTED FOR THIS TYPE OF DATA. PROCESSING OF THE DATA SET CONTINUES.**

Explanation: The form definition of a data set other than the job header specified a Medium Finishing Control (MFC) structured field with a scope value of PRINTJOB. The print job finishing scope is only supported when it is specified in the form definition used for the job header.

The MFC structured field is specified in the Document Environment Group of the form definition or in a copy group.

System action: The finishing triplets are ignored and processing continues when one of these happens:

- The form definition specifies a finishing fidelity exception continuation rule of DO NOT STOP (X'02') and a finishing exception reporting rule of REPORT (X'01').
- The form definition does not specify any finishing fidelity.

PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If the output is unacceptable, do one of these:

- Update the MFC structured field in the form definition to specify a supported scope.
- Specify a different form definition for the data set that does not request printjob finishing.
- Specify a finishing fidelity exception continuation rule of STOP (X'01') in the form definition for the print job. This tells PSF to stop printing the job when finishing errors are reported.
- Specify a finishing fidelity exception continuation rule of DO NOT STOP (X'02') with a finishing fidelity exception reporting rule of DO NOT REPORT (X'02') in the form definition for the print job. This tells PSF to print the job and not to report any finishing errors.

Finishing fidelity is requested by specifying the finishing fidelity triplet (X'88') on the Presentation Fidelity Control (PFC) structured field in the form definition.

If you want the job header finished with the rest of the job, contact your system programmer to find out if a printer or class has been set up with the printjob finishing function.

System programmer response: None.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page (other than the job header), for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 17, 19.

APS2086I **DATA IN A FORM DEFINITION IS NOT SUPPORTED: PRINT JOB FINISHING WAS REQUESTED BUT IS NOT SUPPORTED FOR THIS TYPE OF DATA. PROCESSING OF THE DATA SET IS STOPPED.**

Explanation: The form definition of a data set other than the job header specified a Medium Finishing Control (MFC) structured field with a scope value of PRINTJOB. The print job finishing scope is only supported when it is specified in the form definition used for the job header.

The MFC structured field is specified in the Document Environment Group of the form definition or in a copy group.

System action: The finishing triplets are ignored and PSF stops processing the data set because the form definition specified a finishing fidelity exception continuation rule of STOP (X'01').

PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If the output is unacceptable, do one of these:

* Update the MFC structured field in the form definition to specify a supported scope.
* Specify a different form definition for the data set that does not request printjob finishing.
* Specify a finishing fidelity exception continuation rule of DO NOT STOP (X'02') with a finishing fidelity exception reporting rule of DO NOT REPORT (X'02') in the form definition for the print job. This tells PSF to print the job and not to report any finishing errors.
* Specify a finishing fidelity exception continuation rule of DO NOT STOP (X'02') with a finishing fidelity exception reporting rule of REPORT (X'01') in the form definition for the print job. This tells PSF to print the job and report any finishing errors that occur while printing.
* Do not specify a finishing fidelity triplet (X'88') in the form definition for the print job. This tells PSF to print the job and report any finishing errors that occur while printing.

Finishing fidelity is requested by specifying the finishing fidelity triplet (X'88') on the Presentation Fidelity Control (PFC) structured field in the form definition.

If you want the job header finished with the rest of the job, contact your system programmer to find out if a printer or class has been set up with the printjob finishing function.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page (other than the job header), for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 17, 19.

APS2087I **A GCSGID** *gcsgid* **AND CPGID** *cpgid* **PAIR CANNOT BE CONVERTED TO A CCSID. RETURN CODE** *return code* **WAS RETURNED BY THE CONVERTER.**

Explanation: PSF must convert a resource name encoded with a graphic character set global identifier (GCSGID) and code page global identifier (CPGID) pair by first converting the pair into a coded character set identifier (CCSID). In this case, the conversion to a CCSID failed.

The GCSGID and CPGID pair is specified in a coded graphic character set global identifier triplet, X'01', at the time the resource is referenced.

The possible return codes from the system's conversion services are:

> X'00010001'—No entry was found in the CCSID resource repository for the specified GCSGID and CPGID pair.
> X'00020001'—A CPGID value is zero. A CPGID value is 65,535.

System action: PSF stops processing the current page, then tries to find the end of the current page and resume printing on the next page. If it cannot find the end of the page, PSF stops printing the data set. If this error occurs in a resource, PSF stops processing the data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

User response: The user response varies, depending on the return code issued:

* For return code X'00010001', you must specify a GCSGID and CPGID value that has a supported CCSID.
* For all other return codes, fix your X'01' triplet to specify a valid value for the CPGID.

Consider changing the X'01' triplet to the CCSID form where just a CCSID value is specified. This removes the need to convert the GCSGID, CPGID pair to a CCSID.

If your resource name is in EBCDIC, change the X'01' triplet to specify CCSID 500.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Look at the return code to verify that there is no problem with the system's conversion services. If there is a problem with the conversion services, refer to *z/OS Support for Unicode: Using Unicode Services* for instructions to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2088I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: STRUCTURED FIELD *structured field* **HAS AN INCORRECT SCOPE VALUE ON A CMR DESCRIPTOR TRIPLET.**

Explanation: The scope value is not correct on the Color Management Resource (CMR) Descriptor triplet, X'91', for the specified structured field. The valid scope values for each structured field are listed in Appendix B, "Valid Scope Values for the CMR Descriptor Triplet," on page 559.

System action:

- If processing a form definition, page definition, or resource, PSF stops processing the data set.

- If processing a Resource Environment Group (REG), PSF skips the remainder of the REG and continues processing the data set.

- If processing a page, PSF skips the remainder of the page and continues processing the data set.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field does not have an error, the error might be a PSF logic error. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the

print data set or resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2089I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE *structured field* **STRUCTURED FIELD CONTAINS UNPAIRED FQN X'DE' AND CMR DESCRIPTOR TRIPLETS.**

Explanation: When specifying a color management resource (CMR), the CMR Descriptor triplet (X'91') must immediately follow a Fully Qualified Name (FQN) triplet with an FQNType of Data Object External Resource Reference (X'DE').

System action: If this error occurs in a page, PSF attempts to find the end of the current page, and then tries to resume printing on the next page. If PSF cannot find the end of the page, it stops printing the data set.

If this error occurs in a Resource Environment Group (REG), PSF stops processing the REG and continues processing the data set.

If this error occurs in a page definition or resource, PSF stops processing the data set.

PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field does not have an error, the error might be a PSF logic error. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure.

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| Inform your system programmer.

| **Problem determination:** Items 1, 2, 13, 15c, 17, 19.

| **APS2090I** **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: STRUCTURED FIELD** *structured field* **HAS AN INCORRECT PROCESSING MODE VALUE ON A CMR DESCRIPTOR TRIPLET.**

| **Explanation:** The processing mode value is not correct on the Color Management Resource (CMR) Descriptor triplet, X'91', for the specified structured field. Only audit or instruction modes are valid.

| **System action:**

| • If processing a form definition, page definition, or resource, PSF stops processing the data set.

| • If processing a Resource Environment Group (REG), PSF skips the remainder of the REG and continues processing the data set.

| • If processing a page, PSF skips the remainder of the page and continues processing the data set.

| **User response:** If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field does not have an error, the error might be a PSF logic error. If you used a program to create the structured fields, contact your system programmer.

| **System programmer response:** If an IBM licensed program was used to create the structured fields for the print data set or resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

| **Operator Response:** If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

| **Problem determination:** Items 1, 2, 13, 15c, 17, 19.

| **APS2091I** **BASIC COLOR MANAGEMENT IS NOT SUPPORTED BY THIS PRINTER.**

| **Explanation:** Your print job is requesting color management. However, your printer does not support Color Management Resource (CMR) Descriptor triplets (X'91'), Invoke CMR triplets (X'92'), Rendering Intent triplets (X'95'), or Fully Qualified Name (FQN) type X'41' triplets (X'02').

| **System action:**

| • If the form definition indicates color fidelity stop, PSF stops processing the data set.

| • If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. No basic color management information is sent to the printer.

| • If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. No basic color management information is sent to the printer.

| • If the form definition does not indicate color fidelity, PSF continues processing the data set and reports an error. No basic color management information is sent to the printer.

| **User response:** If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

| If you are not satisfied with your output, submit the print job to a printer that supports color management.

| **System programmer response:** Delete the color management requests from the separator page data set for this printer.

| **Operator Response:** If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

| **Problem determination:** Items 1, 2, 13, 15c, 17, 19.

| **APS2092I** **A CMR WITH TYPE** *cmr type* **IS NOT SUPPORTED BY THIS PRINTER.**

| **Explanation:** The print job or data object resource access table (RAT) specified a color management resource (CMR) with the CMR type listed in the message. However, your printer does not support the specified CMR type.
| • If the CMR type is Color Conversion (CC), the printer does not support the most basic color management.
| • If the CMR type is Half Tone (HT) or Tone Transfer Curve (TC), it might be a generic or device specific CMR that the printer does not support.
| • If the CMR type is Link (LK) or Index (IX), the printer does not provide this support.

| **System action:**

| • If the form definition indicates color fidelity stop, PSF stops processing the data set.

| • If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. The CMR is not sent to the printer.

- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. The CMR is not sent to the printer.
- If the form definition does not indicate color fidelity, PSF continues processing the data set and reports an error. The CMR is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print job to a printer that supports the specified CMR type.

System programmer response: Delete the color management requests from the separator page data set for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2093I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A REPEATING GROUP IN AN MDR STRUCTURED FIELD CONTAINS AN INCOMPLETE SPECIFICATION FOR A CMR.

Explanation: A repeating group in a Map Data Resource (MDR) structured field for a color management resource (CMR) is missing a Fully Qualified Name (FQN) triplet (X'02') with an FQNType of Data Object External Resource Reference (X'DE'), a CMR Descriptor triplet (X'91'), or both.

System action:
- If processing a form definition, page definition, or resource, PSF stops processing the data set.
- If processing a Resource Environment Group (REG), PSF skips the remainder of the REG and continues processing the data set.
- If processing a page, PSF skips the remainder of the page and continues processing the data set.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field does not have an error, the error might be a PSF logic error. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the

print data set or resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2094I   THE INVOKE CMR COMMAND IS NOT SUPPORTED BY THIS PRINTER.

Explanation: Your print job has color management resources (CMRs) specified in the form definition, or it has specified that an overlay be preripped with a CMR. However, your printer does not support the Invoke CMR (ICMR) command.

System action:
- If the form definition indicates color fidelity stop, PSF stops processing the data set.
- If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. The ICMR command is not sent to the printer.
- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. The ICMR command is not sent to the printer.
- If the form definition does not indicate color fidelity, PSF continues processing the data set and reports an error. The ICMR command is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print job to a printer that supports the full color management function.

System programmer response: Delete the color management requests from the separator page form definition for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2095I   THE SPE COMMAND IS NOT SUPPORTED BY THIS PRINTER.

Explanation: Your print job has rendering intent, device appearance, or both specified in the form definition, or it has requested that an overlay be preripped with a rendering intent. However, your printer does not support the Set Presentation Environment (SPE) command.

System action:
- If the form definition indicates color fidelity stop, PSF stops processing the data set.
- If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. The SPE command is not sent to the printer.
- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. The SPE command is not sent to the printer.
- If the form definition does not indicate color fidelity, PSF continues processing the data set and reports an error. The SPE command is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print job to a printer that supports rendering intent and device appearance.

System programmer response: Delete rendering intent and device appearance from the separator page form definition for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2096I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A CMR NAME HAS AN ERROR.

Explanation: A problem exists with the name of a color management resource (CMR) that has been specified in a Map Data Resource (MDR) or a Begin Resource (BRS) structured field. The possible problems are:
- MDR
  - A Link (LK) CMR cannot be specified in an MDR.
  - A generic CMR must have a type of Tone Transfer Curve (TTC) or Half Tone (HT).
  - The CMR name length must be 73 bytes in single-byte encoding or 146 bytes in double-byte encoding.

- BRS
  - A generic CMR must have a type of TTC or HT.
  - The CMR name length must be 73 bytes in single-byte encoding or 146 bytes in double-byte encoding.

System action:
- If processing a form definition, page definition, or resource, PSF stops processing the data set.
- If processing a Resource Environment Group (REG), PSF skips the remainder of the REG and continues processing the data set.
- If processing a page, PSF skips the remainder of the page and continues processing the data set.
- If processing an inline resource, PSF skips to the end of that inline resource and continues processing the data set.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field does not have an error, the error might be a PSF logic error. If you used a program to create the structured fields, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2097I   OBJECT AREA COLORING IS NOT SUPPORTED BY THIS PRINTER.

Explanation: Your printer does not support object area coloring. The Color Specification triplet (X'4E') in the following structured fields determines from where the object area coloring is requested.
- Page Descriptor (PGD) - page or overlay
- Include Object (IOB) - override for the IOCA, GOCA, BCOCA™, object container, or page segment object
- Object Area Descriptor (OBD) - IOCA, GOCA, BCOCA, or object container

System action:
- If the form definition indicates color fidelity stop, PSF stops processing the data set.
- If the form definition indicates color fidelity continue and report errors, PSF continues processing the data

set and reports an error. An object area coloring request is not sent to the printer.

- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. An object area coloring request is not sent to the printer.
- If the form definition does not indicate color fidelity, PSF continues processing the data set and does not report an error. An object area coloring request is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print job to a printer that supports object area coloring.

System programmer response: Delete object area coloring requests from the separator page data set for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2098I   EXTENDED BAR CODE COLORS ARE NOT SUPPORTED BY THIS PRINTER.

Explanation: The Color Specification triplet (X'4E') specifies the extended bar code color on the Bar Code Data Descriptor (BDD) structured field or for a bar code generated by a page definition. However, your printer does not support extended bar code colors.

System action:

- If the form definition indicates color fidelity stop, PSF stops processing the data set.
- If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. A bar code extended color request is not sent to the printer.
- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. A bar code extended color request is not sent to the printer.
- If the form definition does not indicate color fidelity, PSF continues processing the data set and does not report an error. A bar code extended color request is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print

job to a printer that supports extended bar code colors.

System programmer response: Delete extended bar code color requests from the separator page data set for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2099I   SET BILEVEL IMAGE COLOR IS NOT SUPPORTED BY THIS PRINTER.

Explanation: The Color Specification triplet (X'4E') requests a bi-level image color in an Include Object (IOB) structured field. A Set Bilevel Image Color self-defining parameter requests bi-level image color in an Image Data Descriptor (IDD) structured field. However, your printer does not support the Set Bilevel Image Color self-defining parameter for IOCA images.

System action:

- If the form definition indicates color fidelity stop, PSF stops processing the data set.
- If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. A bi-level image color request is not sent to the printer.
- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. A bi-level image color request is not sent to the printer.
- If the form definition does not indicate color fidelity, PSF continues processing the data set and does not report an error. A bi-level image color request is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print job to a printer that supports bi-level image colors.

System programmer response: Delete bi-level image color requests from the separator page data set for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

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APS2100I   **SET EXTENDED BILEVEL IMAGE COLOR IS NOT SUPPORTED BY THIS PRINTER.**

Explanation: A Set Extended Bilevel Image Color self-defining parameter in an Image Data Descriptor (IDD) structured field requests an extended bi-level image color. However, your printer does not support the Set Extended Bilevel Image Color self-defining parameter for IOCA images.

System action:

- If the form definition indicates color fidelity stop, PSF stops processing the data set.

- If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. An extended bi-level image color request is not sent to the printer.

- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. An extended bi-level image color request is not sent to the printer.

- If the form definition does not indicate color fidelity, PSF continues processing the data set and does not report an error. An extended bi-level image color request is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print job to a printer that supports extended bi-level image colors.

System programmer response: Delete extended bi-level image color requests from the separator page data set for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2101I   **SET PROCESS COLOR DRAWING ORDER IS NOT SUPPORTED BY THIS PRINTER.**

Explanation: The Color Specification triplet (X'4E') requests a Set Process Color drawing order for a graphics object generated by a page definition. However, your printer does not support the Set Process Color drawing order for GOCA graphics.

System action:

- If the form definition indicates color fidelity stop, PSF stops processing the data set.

- If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. A Set Process Color drawing order is not sent to the printer.

- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. A Set Process Color drawing order is not sent to the printer.

- If the form definition does not indicate color fidelity, PSF continues processing the data set and does not report an error. A Set Process Color drawing order is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print job to a printer that supports Set Process Color drawing orders

System programmer response: Delete Set Process Color drawing order requests from the separator page's page definition.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2102I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: STRUCTURED FIELD structured field HAS AN INCORRECT OBJECT TYPE IN AN OBJECT OFFSET TRIPLET.**

Explanation: The Object Offset triplet (X'5A') is used when the form definition specifies rendering intent, device appearance, or color management resources (CMRs) at a document level of the hierarchy. However, the object type in an Object Offset triplet is not correct. The object type must be document.

System action: PSF stops processing the print job.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field does not have an error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF*

for z/OS: Diagnosis for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2103I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE *structured field* **STRUCTURED FIELD IN A PAGE DEFINITION IS MISSING A CMR DESCRIPTOR TRIPLET.**

Explanation: When specifying a color management resource (CMR), a CMR Descriptor triplet (X'91') must immediately follow a Fully Qualified Name (FQN) triplet with an FQNType of Data Object External Resource Reference (X'DE').

System action: PSF stops processing the data set.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field does not have an error, the error might be a PSF logic error. If you used a program to create the structured fields for the page definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2104I   TOO MANY CMRS HAVE BEEN SPECIFIED.

Explanation: Too many color management resources (CMRs) were specified, which caused one of these conditions:
- On PSF for z/OS:
  - Too many specified in the Active Environment Group for a page to fit on the Logical Page Descriptor command.
  - Too many specified in a form definition to fit on the Invoke CMR command.
  - Too many specified for an IOCA, GOCA, BCOCA, or object container to fit on a WIC2, WGC, WBCC, or WOCC command, respectively.
  - Too many specified on an Include Object to fit on the IDO command.
  - Too many specified on a Preprocess Presentation Object (PPO) structured field to fit on the RPO command.
- On AFP Download Plus, too many specified in the data object resource access table (RAT) to fit on the IOB command or the PPO command.

System action: PSF stops processing the current page, attempts to find the end of the current page, and then tries to resume printing on the next page. If PSF cannot find the end of the page, it stops printing the data set. If this error occurs in a resource, PSF stops processing the data set.

User response: You must specify thousands of CMRs to create this condition. Please contact the generator of your data stream to have the extraneous CMRs removed.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 3, 13, 15c, 17, 19.

APS2106I   DATA IN A FONT RESOURCE IS NOT VALID: THE RASTER PATTERN DATA COUNT IN THE FNC STRUCTURED FIELD IS NOT VALID.

Explanation: While processing a font character set, PSF detected that bytes 17–19 of the Font Control (FNC) structured field contain a Raster Pattern Data Count that is specified incorrectly. The count is less than the total number of data bytes for all Font Patterns (FNG) structured fields; however, it should be the same.

System action: PSF cannot print the current page. PSF attempts to locate the end of the current page and resume printing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues a message identifying the position of the structured field in the input data stream or resource. PSF issues additional messages identifying the processing environment when the error was found.

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User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

APS2107I	SET TEXT COLOR IS NOT SUPPORTED BY THIS PRINTER.

Explanation: The Text Color Value in a Line Descriptor (LND) structured field requests text color for text in a page definition. However, your printer does not support the Set Text Color PTOCA control.

System action:

- If the form definition indicates color fidelity stop, PSF stops processing the data set.
- If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. A text color request is not sent to the printer.
- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. A text color request is not sent to the printer.
- If the form definition does not indicate color fidelity, PSF continues processing the data set and does not report an error. A text color request is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print job to a printer that supports text colors.

System programmer response: Delete text color requests from the separator page data set for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2108I	DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A RESOURCE OTHER THAN A CMR HAS BEEN SPECIFIED IN AN MDR STRUCTURED FIELD FOR A FORM DEFINITION.

Explanation: Only color management resources (CMRs) can be specified in a Map Data Resource (MDR) structured field for a form definition.

System action: PSF stops processing the print job.

User response: If you created the structured fields, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field does not have an error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2109I	SET EXTENDED TEXT COLOR IS NOT SUPPORTED BY THIS PRINTER.

Explanation: The Color Specification triplet (X'4E') requests extended text color for text in a page definition. However, your printer does not support the Set Extended Text Color PTOCA control.

System action:

- If the form definition indicates color fidelity stop, PSF stops processing the data set.
- If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. An extended text color request is not sent to the printer.
- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing

the data set and does not report an error. An extended text color request is not sent to the printer.

- If the form definition does not indicate color fidelity, PSF continues processing the data set and does not report an error. An extended text color request is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print job to a printer that supports extended text colors.

System programmer response: Delete extended text color requests from the separator page data set for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2110I   THE SPECIFIED DEVICE APPEARANCE IS NOT SUPPORTED BY THIS PRINTER.

Explanation: Your printer either does not support the device appearance that was specified or it does not support the Device Appearance triplet (X'97'). Device appearance is specified in the form definition.

System action:

- If the form definition indicates color fidelity stop, PSF stops processing the data set.
- If the form definition indicates color fidelity continue and report errors, PSF continues processing the data set and reports an error. The device appearance request is not sent to the printer.
- If the form definition indicates color fidelity continue and don't report an error, PSF continues processing the data set and does not report an error. The device appearance request is not sent to the printer.
- If the form definition does not indicate color fidelity, PSF continues processing the data set and reports an error. The device appearance request is not sent to the printer.

User response: If you are satisfied with your output and do not want to see this message, change your form definition to indicate color fidelity continue and don't report an error.

If you are not satisfied with your output, submit the print job to a printer that supports the device appearance specified.

System programmer response: Delete device

appearance from the separator page form definition for this printer.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2111I   DATA IN A CODE PAGE RESOURCE IS NOT VALID: A CPI STRUCTURED FIELD IN CODE PAGE *code page* **HAS AN INCORRECT REPEATING GROUP LENGTH.**

Explanation: The Code Page Index (CPI) structured field has a repeating group with an incorrect length.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and continue printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the code page resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the code page, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the code page, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2112I   CMR TAG FIDELITY WAS REQUESTED BUT CMR TAG FIDELITY IS NOT SUPPORTED BY THIS PRINTER. PROCESSING OF THE DATA SET HAS STOPPED.

Explanation: The user has requested Color Management Resource (CMR) Tag fidelity with a continuation exception rule of stop. However, the printer

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does not support CMR Tag fidelity so PSF stops processing the data set.

System action: PSF stops processing this data set and returns it to JES to be held.

User response: Submit the print job to a printer that supports CMR Tag fidelity. Contact your operator to determine which printers support CMR Tag fidelity.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

| APS2113I | CMR TAG FIDELITY WAS REQUESTED BUT CMR TAG FIDELITY IS NOT SUPPORTED BY THIS PRINTER. PROCESSING OF THE DATA SET CONTINUES. |

Explanation: The user has requested Color Management Resource (CMR) Tag fidelity with a continuation exception rule of continue; however, the printer does not support CMR Tag fidelity. Therefore, unsupported or incorrect CMR Tags cannot be reported, even though PSF continues to process the data set.

System action: PSF processes this data set without CMR Tag fidelity.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

| APS2114I | DATA IN A CODE PAGE RESOURCE IS NOT VALID: THE SORT ORDER FLAG IN THE CPC STRUCTURED FIELD IS INCORRECT. |

Explanation: The sort order flag in the Code Page Control (CPC) structured field is incorrect for the code page resource. A single-byte code page must have the Code Page Index (CPI) repeating groups sorted in ascending character ID order. A double-byte code page must have the CPI repeating groups sorted in ascending code point order.

System action: PSF stops processing the current page. PSF attempts to find the end of the current page and continue printing on the next page. If unable to find the end of the page, PSF stops printing the data set.

PSF issues a message identifying the position of the structured field in the code page resource. PSF issues additional messages identifying the processing environment in which the error occurred.

User response: If you created the structured fields for the code page, correct the error and resubmit the print

request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field is correct, the error might be a PSF logic error. If you used a program to create the structured fields for the code page, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

| APS2500I | DATA IN A FORMDEF RESOURCE OR USER'S JCL IS NOT VALID: THE Y EXTENT SPECIFIED FOR THE MEDIA PRESENTATION SPACE IS NOT VALID OR IS UNSUPPORTED. |

Explanation: The medium extent for the Y axis of the medium presentation space is not valid or is unsupported for the current printer configuration. Either the medium loaded in the input bin is not the correct length, or the Y extent value is incorrect.

The Y axis extent is specified in the Medium Descriptor (MDD) structured field in the form definition, or on the JCL OUTPUT statement with the FORMLEN keyword.

System action: Processing of the data set stops. PSF releases the current data set back to JES and requests that it be held by the system.

User response: Verify that the proper medium is loaded in the printer for this data set. If a different medium needs to be loaded in the printer, contact your operator.

If the correct medium is loaded in the printer, then verify the Y extent value being specified. If you specified the FORMLEN keyword on your JCL OUTPUT, correct the value and resubmit the print request.

If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed

program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure or that the user specified an incorrect FORMLEN value on the JCL OUTPUT statement. Inform the end user if you suspect the FORMLEN value is incorrect; otherwise, inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2501I DATA IN A FORMDEF RESOURCE IS NOT VALID: THE UNITS PER UNIT BASE SPECIFIED IN THE MEDIUM DESCRIPTOR STRUCTURED FIELD IS NOT VALID OR UNSUPPORTED.

Explanation: The units per unit base is not valid or is unsupported for the current printer configuration. The units per unit base is specified in the Medium Descriptor (MDD) structured field in the form definition.

System action: Processing of the data set stops. PSF releases the current data set back to JES and requests that it be held by the system.

User response: If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the form definition with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2502I DATA IN A FONT RESOURCE IS NOT VALID: THE METRIC ADJUSTMENT TRIPLET CONTAINS AN INCORRECT OR UNSUPPORTED VALUE.

Explanation: One of these conditions occurred in a metric adjustment triplet:

- The unit base field contained an incorrect value.
- The XUPUB or YUPUB field contained an incorrect or unsupported value.
- The XUPUB value was not equal to the YUPUB value.

A metric adjustment triplet (X'79') is contained in a Coded Font Control (CFC) structured field.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS2503I DATA IN A FONT RESOURCE IS NOT VALID: THE BASELINE ADJUSTMENT VALUE IS TOO LARGE OR TOO SMALL.

Explanation: The combination of the baseline offset adjustment value and a character's baseline offset value is beyond the range the printer can handle. The baseline offset adjustment value is contained in a Metric Adjustment triplet. A Metric Adjustment triplet (X'79') is contained in a Coded Font Control (CFC) structured field.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the font, correct the error and resubmit the print request. Refer to *Data Stream and Object Content Architectures:*

Font Object Content Architecture Reference for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the font, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the font with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 17, 27.

APS2504I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A BEGIN TRANSPARENCY MASK PARAMETER IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: A Begin Transparency Mask parameter is out of sequence or appears more than once in an image or tile. A Begin Transparency Mask parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to

PSF for z/OS: Diagnosis for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2505I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN END TRANSPARENCY MASK PARAMETER IS MISSING OR OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An End Transparency Mask parameter is missing after a Begin Transparency Mask has been encountered or is out of sequence. An End Transparency Mask parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User

Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2506I	DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMAGE DATA SELF-DEFINING FIELD IS NOT VALID IN AN IPD STRUCTURED FIELD.

Explanation: An Image Data self-defining field was specified in an IOCA image object but should not be present because the Band Image parameter was specified. An Image Data self-defining field and a Band Image parameter are contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for

the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2507I	DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: BOTH A BAND IMAGE PARAMETER AND AN IMAGE SUBSAMPLING PARAMETER WERE SPECIFIED IN AN IPD STRUCTURED FIELD. ONLY ONE IS ALLOWED.

Explanation: A Band Image parameter was specified in an IOCA image object and a subsequent Image Subsampling parameter was also found in the same image object. A Band Image parameter and an Image Subsampling parameter cannot coexist in the same image object. A Band Image parameter and an Image Subsampling parameter are contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2508I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A BAND IMAGE PARAMETER IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.**

Explanation: A Band Image parameter was encountered out of sequence or appeared more than once in IOCA image object.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2509I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A BAND IMAGE PARAMETER VALUE IN AN IPD STRUCTURED FIELD IS NOT VALID OR IS UNSUPPORTED.**

Explanation: A Band Image parameter value in an Image Picture Data (IPD) structured field is not valid or is not supported.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2510I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: BAND IMAGE PARAMETER VALUES IN AN IPD STRUCTURED FIELD ARE INCONSISTENT.**

Explanation: The number of BITCNT parameters in a Band Image parameter is not equal to the BCOUNT value. A Band Image parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2511I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A BAND IMAGE PARAMETER IN AN IPD STRUCTURED FIELD IS INCONSISTENT WITH THE IDE SIZE PARAMETER.

Explanation: The IDE size determined by the Band Image parameter (after subtracting padding bits) does not match the IDE Size parameter. A Band Image

parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2512I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IDE STRUCTURE PARAMETER IN AN IPD STRUCTURED FIELD IS OUT OF SEQUENCE.

Explanation: An IDE Structure parameter was encountered out of sequence or appears more than once. An IDE Structure parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing

line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2513I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IDE STRUCTURE PARAMETER IN AN IPD STRUCTURED FIELD IS NOT VALID OR IS UNSUPPORTED.

Explanation: A value in an IDE Structure parameter is not valid or is not supported. An IDE Structure parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2514I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE IDE STRUCTURE PARAMETER IN AN IPD STRUCTURED FIELD IS NOT VALID.

Explanation: One or more of these conditions has occurred in an IDE Structure parameter:

- The sum of the SIZE1 through SIZE4 values in an IDE Structure parameter does not match the IDE size specified in the IDE Size parameter.
- The color space is CMYK and SIZE4 is missing.
- SIZE4 is present and the color space is not CMYK.

An IDE Structure parameter and IDE Size parameter are contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object

(IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2515I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A BAND IMAGE DATA SELF-DEFINING FIELD WAS SPECIFIED WITHOUT A BAND IMAGE PARAMETER BEING SPECIFIED.

Explanation: A Band Image Data self-defining field was specified that should not be present because the Band Image parameter was not specified. A Band Image Data self-defining field and a Band Image parameter are contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2516I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A BAND IMAGE DATA SELF-DEFINING FIELD IS MISSING OR OUT OF SEQUENCE.

Explanation: A Band Image Data self-defining field was missing or encountered out of sequence. When a Band Image parameter is specified, one or more Band Image Data self-defining fields must appear after image data parameters and before End Image Content. A Band Image Data self-defining field is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position

errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2517I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN INCORRECT NUMBER OR SEQUENCE OF BAND IMAGE DATA SELF-DEFINING FIELDS WERE SPECIFIED IN AN IPD STRUCTURED FIELD.

Explanation: Either some of the bands specified in the Band Image parameter were missing in the Band Image Data or the Band Image Data self-defining fields were not in the sequential order of the band numbers. A Band Image Data self-defining field is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the

printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2518I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN INCONSISTENT EXTERNAL ALGORITHM SPECIFICATION PARAMETER AND IMAGE ENCODING PARAMETER WERE SPECIFIED IN AN IPD STRUCTURED FIELD.

Explanation: One of these has occurred:
- An External Algorithm Specification parameter was specified in an IOCA image object, but a corresponding Image Encoding parameter was not found.
- An Image Encoding Parameter was specified in an IOCA image object that requires an External Algorithm Specification Parameter, but no External Algorithm Parameter was found.

An External Algorithm Specification parameter and an Image Encoding parameter are contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object

(IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2519I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN EXTERNAL ALGORITHM SPECIFICATION PARAMETER IN AN IPD STRUCTURED FIELD IS OUT OF SEQUENCE.

Explanation: An External Algorithm Specification parameter was encountered out of sequence or appeared more than once. An External Algorithm Specification parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might

attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2520I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN EXTERNAL ALGORITHM SPECIFICATION PARAMETER VALUE IN AN IPD STRUCTURED FIELD IS NOT VALID OR IS UNSUPPORTED.

Explanation: A value in an External Algorithm parameter is not valid or is unsupported. An External Algorithm Specification parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current

data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2521I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN EXTERNAL ALGORITHM SPECIFICATION PARAMETER WAS SPECIFIED IN AN IPD STRUCTURED FIELD THAT IS NOT REQUIRED.

Explanation: An External Algorithm parameter was specified in the image, but the Image Encoding parameter does not require it. An External Algorithm Specification parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2522I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE POSITION PARAMETER IN AN IPD STRUCTURED FIELD IS MISSING OR OUT OF SEQUENCE.

Explanation: A required Tile Position parameter is missing or was encountered out of sequence. A Tile Position parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured

field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2523I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE POSITION PARAMETER VALUE IN AN IPD STRUCTURED FIELD IS NOT VALID.

Explanation: An XOFFSET or YOFFSET value in a Tile Position parameter is not valid or is outside the image presentation space. A Tile Position parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2524I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: TILE POSITION PARAMETER VALUES IN AN IPD STRUCTURED FIELD ARE INCONSISTENT.

Explanation: One of these conditions has occurred in a Tile Position parameter:

- Tiles are specified out of order. This exception can occur only if the Tile Table of Contents (TOC) parameter does not contain any TOC entries. If the Tile TOC parameter does contain TOC entries, the tiles themselves can be specified in any order.

- The Tile TOC parameter does contain the table of contents, but the XOFFSET or YOFFSET given for this tile in the table of contents does not match the corresponding values specified in the Tile Position parameter.

A Tile Position parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content*

Architecture Reference for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2525I	DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE SIZE PARAMETER IN AN IPD STRUCTURED FIELD IS MISSING OR OUT OF SEQUENCE.

Explanation: A required Tile Size parameter is missing or was encountered out of sequence. A Tile Size parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for

the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2526I	DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE SIZE PARAMETER VALUE IN AN IPD STRUCTURED FIELD IS NOT VALID.

Explanation: A value in a Tile Size parameter is not valid. A Tile Size parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to

PSF for z/OS: Diagnosis for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2527I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE SIZE PARAMETER VALUE IN AN IPD STRUCTURED FIELD IS INCONSISTENT.

Explanation: One or more of these conditions has occurred in a Tile Size parameter:

- The tile overlaps a previously specified tile.
- The RELRES value specified in the table of contents does not match the corresponding RELRES value in the Tile Size parameter.
- The THSIZE or TVSIZE specified in the table of contents does not match the corresponding value in the Tile Size parameter.

A Tile Size parameter and the Tile table of contents are contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for

the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2528I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE SET COLOR PARAMETER IN AN IPD STRUCTURED FIELD IS OUT OF SEQUENCE.

Explanation: A Tile Set Color parameter was encountered out of sequence or appeared more than once. A Tile Set Color parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to

that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2529I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE SET COLOR PARAMETER VALUE IN AN IPD STRUCTURED FIELD IS INCONSISTENT.

Explanation: A Tile Set Color parameter was specified once in the correct sequence, but the tile was not a bi-level tile. The IDE Size parameter, if specified, must specify an IDE size of one bit per IDE. The IDE Structured parameter, if specified, must specify a color space of either YCrCb or YCbCr. A Tile Set Color parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to

PSF for z/OS: Diagnosis for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2530I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE TOC PARAMETER IN AN IPD STRUCTURED FIELD IS OUT OF SEQUENCE.

Explanation: In a tiled image, the Tile Table of Contents (TOC) parameter did not appear immediately after a Begin Image Content self-defining field, or it appeared more than once. A Tile TOC parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User

Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2531I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE TOC PARAMETER VALUE IN AN IPD STRUCTURED FIELD IS NOT VALID.

Explanation: A value in a Tile Table of Contents (TOC) parameter is not valid. A Tile TOC parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure.

Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2532I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE TOC PARAMETER VALUE IN AN IPD STRUCTURED FIELD IS INCONSISTENT.

Explanation: One or more of these conditions has occurred in a Tile Table of Contents (TOC) parameter:

- Not all tiles are listed in the table of contents, even though the table of contents contains at least one tile.
- The table of contents lists a non-existent tile.
- An incorrect tile order was specified; two or more tiles in the table of contents have sort keys (primary: YOFFSET; secondary: XOFFSET) that are identical or are out of sequence.
- The specified offset for one or more tiles does not point to a position where a Begin Tile parameter starts.

A Tile TOC parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message

data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2533I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMAGE SUBSAMPLING PARAMETER AND A BAND IMAGE PARAMETER IN AN IPD STRUCTURED FIELD ARE INCONSISTENT.

Explanation: An Image Subsampling parameter was specified in an IOCA image object and a subsequent Band Image parameter was also found. A Band Image parameter and an Image Subsampling parameter cannot coexist in the same image. An Image Subsampling parameter and Band Image parameter are contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message

APS2534I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMAGE SUBSAMPLING PARAMETER IN AN IPD STRUCTURED FIELD IS OUT OF SEQUENCE.

Explanation: An Image Subsampling parameter was encountered out of sequence or appeared more than once. An Image Subsampling parameter and Begin Image Content parameter are contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2535I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN IMAGE SUBSAMPLING PARAMETER VALUE IN AN IPD STRUCTURED FIELD IS NOT VALID OR IS UNSUPPORTED.**

Explanation: A value in an Image Subsampling parameter is not valid or is not supported. An Image Subsampling parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2536I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A COLOR PALETTE PARAMETER IN AN IPD STRUCTURED FIELD IS OUT OF SEQUENCE.**

Explanation: A Color Palette parameter was encountered out of sequence or appeared more than once. A Color Palette parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2537I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A COLOR PALETTE PARAMETER IN AN IPD STRUCTURED FIELD IS NOT VALID OR IS UNSUPPORTED.**

Explanation: A value in a Color Palette parameter is not valid or is not supported. A Color Palette parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Color Fidelity triplet the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit

the print request. Contact your operator and ask that your previous print request, which was held, be purged. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

If you submitted the print request to the wrong printer, consult your operator to determine to which printer that data set should be rerouted.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that supports this function. For a JES command to release the data set for printing, refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* .

If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2538I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A BEGIN TILE PARAMETER IS OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.**

Explanation: A Begin Tile parameter was encountered out of sequence in a series of Image Picture Data (IPD) structured fields.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error,

unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2539I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN END TILE PARAMETER IS MISSING OR OUT OF SEQUENCE IN AN IPD STRUCTURED FIELD.

Explanation: An End Tile parameter is missing after a Begin Tile parameter has been encountered, or it is out of sequence in a series of Image Picture Data (IPD) structured fields.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Refer to *Image Object Content*

Architecture Reference for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2540I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A TILE SET COLOR PARAMETER VALUE IN AN IPD STRUCTURED FIELD IS NOT VALID.

Explanation: One or more of these conditions has occurred in a Tile Set Color parameter:

- The color space (CSPACE) value specified is not valid.
- The size value specified is not valid.
- The color value specified is not valid.

A Tile Set Color parameter is contained in an Image Picture Data (IPD) structured field.

The IPD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, a data set containing line data, a page segment, or a MO:DCA object. A page segment is included using either an Include Page Segment (IPS) structured field or an Include Object (IOB) structured field. A MO:DCA object is included using the IOB structured field.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT was specified on the OUTPUT statement.

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When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Color Fidelity triplet the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the IOCA image object, correct the error and resubmit the print request. Contact your operator and ask that your previous print request, which was held, be purged. Refer to *Image Object Content Architecture Reference* for more information about the contents of the IPD structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the IOCA image object, contact your system programmer.

If you submitted the print request to the wrong printer, consult your operator to determine to which printer that data set should be rerouted.

System programmer response: If an IBM licensed program was used to create the structured fields of the IOCA image object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If you are running under Job Entry Subsystem (JES), use the JES data-set release commands to release the data set to a printer that supports this function. For a JES command to release the data set for printing, refer to *z/OS JES2 Commands* or *z/OS JES3 Commands* .

If this message displays on the operator's console, it indicates that the resource containing the error is

defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2541I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A MAPPING OPTION VALUE IS NOT VALID OR IS UNSUPPORTED.

Explanation: The Mapping Option specified was not valid, or the printer does not support the Mapping Option value. The Mapping Option was specified on either an Include Object (IOB) or a Map Image Object (MIO) structured field. The IOB and MIO structured fields could be contained in a page definition, an overlay, or a MO:DCA page, or it could be embedded in line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. If the structured field was part of a resource, PSF stops processing and printing the data set.

User response: If you created the structured fields for the object, correct the error and resubmit the print request. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 8, 13, 17, 27.

APS2542I   THE PRESENTATION DATA IN AN OBJECT CONTAINER RESOURCE EXTENDS OUTSIDE THE OBJECT AREA.

Explanation: A position mapping was used that caused some portion of the object data to extend outside of the object area. The presentation space is specified in the object data. The object area size can be specified in an Object Area Descriptor (OBD) in an Object Environment Group (OEG) for the object container or in an Include Object (IOB) structured field.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: Either increase the object area size or change the offset specified for the position mapping and resubmit the print request. Changing the mapping option to position and trim can show where the object data is hitting the object boundary. Refer to the appropriate documentation for the data stream being carried in the object container resource. If you used a program to create the structured fields and the data, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 8, 13, 17, 27.

APS2543I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE HAXIS OR VAXIS PARAMETER OF A BOX OR BOX AT CURRENT POSITION DRAWING ORDER IS TOO LARGE.

Explanation: A Box or Box at Current Position drawing order in a Graphics Data (GAD) structured field contains an HAXIS or VAXIS parameter that is too large to fit the indicated corner into the size of the box.

The GAD structured field is contained in a graphics

object. The graphics object can be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If the structured fields are not valid and you created the structured fields for the resource or print data set containing the graphics object, correct the error in the referenced structured field and resubmit the print request. Refer to *Graphics Object Content Architecture for Advanced Function Presentation Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2544I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: EITHER THE HAXIS OR VAXIS PARAMETER OF A BOX OR BOX AT CURRENT POSITION DRAWING ORDER IS OUTSIDE THE VALID RANGE.

Explanation: A Box or Box at Current Position drawing order in a Graphics Data (GAD) structured field contains an HAXIS or VAXIS parameter that is outside the valid range.

The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might

not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If the structured fields are not valid and you created the structured fields for the resource or print data set containing the graphics object, correct the error in the referenced structured field and resubmit the print request. Refer to *Graphics Object Content Architecture for Advanced Function Presentation Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2545I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE POSITION FOR THE ENDPOINT OF THE ARC IN A PARTIAL ARC OR PARTIAL ARC AT CURRENT POSITION DRAWING ORDER IS OUTSIDE THE PRESENTATION SPACE.

Explanation: In a partial Arc or Partial Arc at Current Position drawing order, the calculated new current position for the endpoint of the arc is outside the limits of the graphic presentation space.

The Partial Arc and Partial Arc at Current Position drawing orders are contained in the Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position

errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If the structured fields are not valid and you created the structured fields for the resource or print data set containing the graphics object, correct the error in the referenced structured field and resubmit the print request. Refer to *Graphics Object Content Architecture for Advanced Function Presentation Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2546I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: IN A PARTIAL ARC OR PARTIAL ARC AT CURRENT POSITION DRAWING ORDER, THE SWEEP ANGLE IS NOT VALID.

Explanation: In a Partial Arc or Partial Arc at Current Position drawing order, the SWEEP angle is not valid (negative).

The Partial Arc and Partial Arc at Current Position drawing orders are contained in the Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error,

unless the printer reported another error that required a more severe PSF recovery action.

User response: If the structured fields are not valid and you created the structured fields for the resource or print data set containing the graphics object, correct the error in the referenced structured field and resubmit the print request. Refer to *Graphics Object Content Architecture for Advanced Function Presentation Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2547I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: IN A PARTIAL ARC OR PARTIAL ARC AT CURRENT POSITION DRAWING ORDER, THE START ANGLE IS NOT VALID.

Explanation: In a Partial Arc or Partial Arc at Current Position drawing order, the START angle is not valid (negative).

The Partial Arc and Partial Arc at Current Position drawing orders are contained in the Graphics Data (GAD) structured field. The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay or it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If the structured fields are not valid

and you created the structured fields for the resource or print data set containing the graphics object, correct the error in the referenced structured field and resubmit the print request. Refer to *Graphics Object Content Architecture for Advanced Function Presentation Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2548I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A PORTION OF A CHARACTER WILL EXTEND BEYOND THE TEXT PRESENTATION SPACE BOUNDARY.

Explanation: A character has been positioned so that a portion of its character box exceeds the Text Presentation Space boundary in either the i-direction or b-direction.

The text-control sequence is located in a Presentation Text Data (PTX) structured field or was generated by PSF from a page definition. The PTX structured field might be contained in a MO:DCA document, an overlay, or it might be embedded in a data set containing line data.

System action: The printer you were using might attempt to print the page in error. The entire page might not be printed. If the page in error contains any position errors, exception highlighting might be included on the printed page. PSF continues processing of the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If the structured fields are not valid and you created the structured fields for the resource or print data set, correct the error in the referenced structured field and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference*

for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the resource or print data set containing the image, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2549I   A DATA-VALIDATION DEVICE CONNECTED TO THE PRINTER HAS DETECTED UNREADABLE OR INCORRECTLY PRINTED DATA. PARTIAL OR DUPLICATE PAGES MIGHT BE PRINTED.

Explanation: A data-validation device connected to the printer has detected unreadable or incorrectly printed data. This caused the printer to discard its buffered pages. The printer reports an action code X'1A' to instruct PSF to redrive buffered pages. For more information about this condition, refer to the publications for the printer that reported this error.

System action: PSF resends pages to the printer, starting from the committed page counter plus 1. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error persists, contact your system programmer.

System programmer response: If a function was not selected at the printer and the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 18.

APS2550I   THE PUNCH WASTE BIN ON A PRINTER THAT SUPPORTS THE PUNCH OPERATION HAS BECOME FULL. PARTIAL OR DUPLICATE PAGES MIGHT BE PRINTED.

Explanation: The punch waste bin on a printer that supports the punch operation is full. This caused the printer to discard its buffered pages. The printer reports an action code X'1A' to instruct PSF to redrive buffered pages. For more information about this condition, refer to the publications for the printer that reported this error.

System action: PSF resends pages to the printer, starting from the committed page counter plus 1. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error persists, contact your system programmer.

System programmer response: If a function was not selected at the printer and the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 18.

APS2551I   THE DATA IN A PRESENTATION OBJECT CONTAINER RESOURCE WAS CONSIDERED INCORRECT BY THE PRINTER. CODE = (*code and brief description***).**

Explanation: The data in an object container resource was not considered valid by the printer, although the printer supports the resource type as identified by the Object Classification Triplet on the Begin Object Container structured field.

For a complete list of the error codes and descriptions, refer to *Intelligent Printer Data Stream Reference*.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF or

printer logic error. If you used a program to create the structured fields for the resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2552I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN INCLUDE TILE PARAMETER IS SPECIFIED WITHIN AN IOCA TILE RESOURCE.

Explanation: An Include Tile Parameter was specified in an IOCA tile resource. Nested references are not allowed. The Include Tile Parameter is contained in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an IOCA image object. The IOCA image data object might be included in a MO:DCA document, an overlay, a page segment, or an object container, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field is correct, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data

set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2553I   THE DATA IN AN OBJECT CONTAINER RESOURCE WAS CONSIDERED INCORRECT BY THE PRINTER. CODE = (*code and brief description***).**

Explanation: The data in an object container resource was not considered valid by the printer, although the printer supports the resource type as identified by the Object Classification Triplet on the Begin Object Container structured field.

For a complete list of the error codes and descriptions, refer to *Intelligent Printer Data Stream Reference*.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the data in the structured fields of the object container resource, correct the error and resubmit the print request. Refer to the appropriate documentation for the data stream being carried in the object container resource. If you used a program to create the structured fields and the data, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2554I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A SECONDARY DATA OBJECT RESOURCE WAS NOT FOUND.

Explanation: One of these conditions occurred with a secondary resource while printing a data object:

- A presentation data object referenced a data object resource by an internal name, but there was no X'DE', X'BE' pair on the Include Object (IOB) to identify the secondary resource's external name.

- A presentation data object referenced a data object resource by an internal name. This internal name was mapped to an external name by a X'DE', X'BE' pair on the Include Object (IOB), but the resource identified by the external name was not mapped in the Active Environment Group (AEG) for the page.

- A presentation data object referenced a data object resource by an external name, but this external name was not mapped in the Active Environment Group (AEG) for the page.

The data object might be included in a MO:DCA document, an overlay, or an object container or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2555I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN INCLUDE TILE PARAMETER IS OUT OF SEQUENCE.

Explanation: An Include Tile Parameter was encountered out of sequence or appeared more than once. An Include Tile Parameter must appear immediately after a Tile Position Parameter. The Include Tile Parameter is contained in an Image Picture Data (IPD) structured field. The IPD structured field is contained in an IOCA image object. The IOCA image object might be included in a MO:DCA document, an overlay, a page segment, or an object container or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2556I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: INAPPROPRIATE SECONDARY RESOURCE INVOKED FOR A DATA OBJECT.

Explanation: A data object resource was invoked for a presentation data object, but it is not a valid object type for that data object.The data object might be included in a MO:DCA document, an overlay, or an object container, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the print data set or resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the correct format of the referenced structured field. If the structured field is correct, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the print data set or resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2557I   THE PRINTER HAS DETECTED A DATA-RELATED DECOMPRESSION ERROR.

Explanation: The printer has detected a data-related decompression error on a page. Incorrectly compressed JPEG image data in a data object or an IOCA image can cause this error.

The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data. The data object might be included in a MO:DCA document, an overlay, or an object container, or it might be embedded in a data set containing line data.

System action: PSF stops processing the current data set and issues additional messages that identify the

processing environment when the error was found.

User response: If you created the structured fields of the object container or image object resource, correct the error and resubmit the print request. Refer to the appropriate documentation for the data stream being carried in the object container or image object resource. If you used a program to create the structured fields and the data, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear any paper that has not been stacked.

Problem determination: Items 1, 2, 17, 27.

APS2558I   THE PRINTER HAS DETECTED A DATA-RELATED DECOMPRESSION ERROR.

Explanation: The printer has detected a data-related decompression error on a page. Incorrectly compressed JPEG image data in a data object or an IOCA image can cause this error.

The image object might be contained in a MO:DCA document, an overlay, or a page segment; or it might be embedded in a data set containing line data. The data object might be included in a MO:DCA document, an overlay, or an object container, or it might be embedded in a data set containing line data.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the data in the structured fields of the object container or image object resource, correct the error and resubmit the print request. Refer to the appropriate documentation for the data stream being carried in the object container resource. If you used a program to create the structured fields and the data, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the

operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2559I   THE DATA IN A PRESENTATION OBJECT CONTAINER RESOURCE WAS CONSIDERED INCORRECT BY THE PRINTER. CODE = (code and brief description**).**

Explanation: The data in an object container resource was not considered valid by the printer, although the printer supports the resource type as identified by the Object Classification Triplet on the Begin Object Container structured field.

For a complete list of the error codes and descriptions, refer to *Intelligent Printer Data Stream Reference*.

N (rightmost 4 bits) in the error code, for example, X'016N', contains the collection index value plus one. A value of X'0' indicates either that the object was a font or indicates that the collection index is not provided because it is greater than 15 (X'F'). If message APS830I is issued along with this message, then the "Element Identifier" contains the error code with the collection index.

System action: PSF stops processing the current data set and issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the object container resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the object container resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2560I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE OBJECT-AREA-ORIGIN-OFFSET VALUE SPECIFIED FOR A DATA OBJECT IS UNSUPPORTED.

Explanation: The X or Y object-area-origin-offset value specified in the Object Area Position (OBP) of the data object resource or in the IOB that included the object is unsupported.

The data object might be included in a MO:DCA document, an overlay, or an object container, or it might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the data object resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the data object resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2561I   A PROBLEM WITH THE PRINTER RIBBON HAS OCCURRED THAT REQUIRES OPERATOR INTERVENTION.

Explanation: A problem with the printer ribbon occurred. This caused the printer to discard its buffered pages. The printer reports an action code X'1A' to instruct PSF to redrive buffered pages. For more information about this condition, refer to the publications

for the printer that reported this error.

System action: PSF resends pages to the printer, starting from the committed page counter plus 1. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error persists, contact your system programmer.

System programmer response: If a function was not selected at the printer and the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 18.

APS2562I   THE PRINTER HAS REPORTED A CONDITION IN A POSTPROCESSOR THAT PSF DOES NOT RECOGNIZE.

Explanation: The printer reported an action code X'0A' I/O error that PSF does not recognize. This message is accompanied by a message that presents the printer sense bytes.

System action: PSF stops processing and printing the data set.

User response: Inform your system programmer that this error occurred.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF.

Problem determination: Items 1, 2, 17, 27.

APS2563I   A PARAMETER VALUE IN A FORMDEF RESOURCE IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN UNSUPPORTED FINISHING OPERATION COUNT VALUE.

Explanation: The finishing operation count field (byte 6) in a Finishing Operation triplet (X'85') contains an unsupported value.

Finishing Operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable, do one of these:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that can perform the finishing operation.

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- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2564I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A SET PRESENTATION SPACE SIZE SELF-DEFINING FIELD WAS SPECIFIED INCORRECTLY.**

Explanation: One or more of these occurred in the Set Presentation Space self-defining field:
- The Xsize or Ysize field in a Set Presentation Space Size self-defining field is incorrect.
- Both Xsize and Ysize can be specified using 2 bytes. The values were not specified in Image Data Description (IDD) bytes 11-14 or the Set Presentation Space Size self-defining field was not specified.
- One or both of the size parameters in a Set Presentation Space Size self-defining field are greater than X'7FFF', but the corresponding value or values specified in IDD bytes 11–14 has not been set to X'7FFF'.

A Set Presentation Space Size self-defining field is contained in an IDD structured field.

The IDD structured field is contained in an IOCA image object. The IOCA image object might be contained in a MO:DCA document, an overlay, an object container, a data set containing line data, or a page segment, or might be included by an Include Object (IOB) structured field. A page segment is included using an Include Page Segment (IPS) structured field or an IOB structured field.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2565I **A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INCORRECT OR UNSUPPORTED FINISHING OPERATION AXIS OFFSET VALUE.**

Explanation: The axis offset field (bytes 7–8) in a Finishing Operation triplet (X'85') contains an incorrect or unsupported value.

Finishing Operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be

held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02''), one of these occurs:

* If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

* If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

* If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

* If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable:

* Verify that you have requested the appropriate form definition for the finishing operation intended.

* Submit the print request to a printer that can perform the finishing operation.

* If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed

program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2566I **A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES AN INCORRECT OR UNSUPPORTED FINISHING OPERATION POSITION VALUE.**

Explanation: A finishing operation position field in a Finishing Operation triplet (X'85') contains an incorrect or unsupported value.

Finishing Operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a Medium Map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

* If the printer supports the PFC Finishing Fidelity triplet and if the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

* If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error

to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is not acceptable, do one of these:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that can perform the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2567I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE MATRIX ROW SIZE VALUE OR THE NUMBER OF ROWS VALUE FOR A BAR CODE IS UNSUPPORTED.

Explanation: If the bar code is specified as a bar code object, either the matrix row size value or the number of rows value specified in a Bar Code Data (BDA) structured field is unsupported.

If the bar code is specified with the BARCODE subcommand in a page definition, the values specified in the SIZE *rows* BY *cols* parameter on the BCXPARMS subcommand are not valid.

The BDA structured field is contained in a bar code object. The bar code object might be contained in a MO:DCA document, an overlay, or might be embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2568I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE STRUCTURED APPEND SEQUENCE INDICATOR FOR A BAR CODE IS NOT VALID.**

Explanation: If the bar code is specified as a bar code object, a structured append sequence indicator specified in the Bar Code Data (BDA) structured field is not valid.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified for *seq* in the SEQUENCE *seq* OF *tot* parameter on the BCXPARMS subcommand is not valid. For a Data Matrix or QR Code symbol, the sequence indicator must be between 1 and 16, inclusive. For a MaxiCode symbol, the sequence indicator must be between 1 and 8, inclusive.

The bar code object might be contained in a MO:DCA document or an overlay or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2569I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE STRUCTURED APPEND SEQUENCE INDICATOR FOR A BAR CODE IS TOO LARGE.**

Explanation: If the bar code is specified as a bar code object, a structured append sequence indicator specified in the Bar Code Data (BDA) structured field is larger than the total number of structured append symbols.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified for *seq* in the SEQUENCE *seq* OF *tot* parameter is larger than the value specified for *tot*.

The bar code object might be contained in a MO:DCA document or an overlay or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

**APS2570I   DATA IN AN INPUT RECORD OR
RESOURCE IS NOT VALID:
MISMATCHED STRUCTURED APPEND
INFORMATION IS SPECIFIED FOR A
BAR CODE.**

Explanation: If the bar code is specified as a bar code object, mismatched structured append information is specified in the Bar Code Data (BDA) structured field. One of the sequence-indicator or total-number-of-symbols parameters is X'00', but the other is not.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified for *seq* or *tot* in the SEQUENCE *seq* OF *tot* parameter is X'00' and the other is not.

The bar code object might be contained in a MO:DCA document or an overlay or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

**APS2571I   DATA IN AN INPUT RECORD OR
RESOURCE IS NOT VALID: THE
NUMBER OF STRUCTURED APPEND
SYMBOLS SPECIFIED FOR A BAR
CODE IS NOT VALID.**

Explanation: If the bar code is specified as a bar code object, the number of structured append symbols specified in the Bar Code Data (BDA) structured field is not valid.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified for *tot* in the SEQUENCE *seq* OF *tot* parameter on the BCXPARMS subcommand is not valid. For a Data Matrix or QR Code symbol, the total number of symbols must be between 2 and 16, inclusive. For a MaxiCode symbol, the total number of symbols must be between 2 and 8, inclusive.

The bar code object might be contained in a MO:DCA document or an overlay or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2572I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN INCOMPATIBLE COMBINATION OF DATA MATRIX PARAMETERS IS SPECIFIED FOR A BAR CODE.

Explanation: An incompatible combination of Data Matrix parameters is specified. One or more of these conditions occurred:

- A structured append is specified, but either the reader programming flag is set to B'1', or a header and trailer macro is specified.
- The UCC/EAN FNC1 flag is set to B'1', but either the industry FNC1 flag is set to B'1', the reader programming flag is set to B'1', or a header and trailer macro is specified.
- The industry FNC1 flag is set to B'1', but either the UCC/EAN FNC1 flag is set to B'1', the reader programming flag is set to B'1', or a header and trailer macro is specified.
- The reader programming flag is set to B'1', but either a structured append is specified, one of the FNC1 flags is set to B'1', or a header and trailer macro is specified.
- A header and trailer macro is specified, but either a structured append is specified, one of the FNC1 flags is set to B'1', or the reader programming flag is set to B'1'.

If the bar code is specified as a bar code object, the error is in the Bar Code Data Descriptor (BDD) structured field.

If the bar code is specified with the BARCODE subcommand in a page definition, the error is in an Additional Bar Code Parameters triplet (X'7B') on a Line Descriptor (LND), Record Descriptor (RCD), or XML Descriptor (XMD) structured field.

The bar code object might be contained in a MO:DCA document, an overlay, or a page segment, or might be associated with a data set that contains line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about the BDA structured field. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the X'7B' triplet.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2573I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A SPECIFIED STRUCTURED APPEND FILE IDENTIFICATION VALUE FOR A BAR CODE IS NOT VALID.

Explanation: A structured append file identification value specified in a bar code is not valid. Each byte of the two-byte file identification value must be in the range X'0A'–X'FE'.

If the bar code is specified as a bar code object, the error is in the Bar Code Data Descriptor (BDD) structured field.

If the bar code is specified with the BARCODE subcommand in a page definition, the values specified for *uidHi*, *uidLo*, or both in the SEQUENCE *seq* OF *tot* ID *uidHi uidLo* parameter on the BCXPARMS subcommand are not valid.

The bar code object might be contained in a MO:DCA document, an overlay, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more

information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2574I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A SPECIFIED SYMBOL MODE VALUE FOR A BAR CODE IS NOT VALID.**

Explanation: If the bar code is specified as a bar code object, a symbol mode value specified in the Bar Code Data (BDA) structured field is not valid.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified for the MODE parameter on the BCXPARMS subcommand is not valid.

The bar code object might be contained in a MO:DCA document, an overlay, a page segment, or embedded in a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for

the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2575I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A SPECIFIED DATA SYMBOL CHARACTERS PER ROW VALUE FOR A PDF417 SYMBOL IS NOT VALID.**

Explanation: The number of data symbol characters per row for a PDF417 bar code symbol is not valid.

If the bar code is specified as a bar code object, the error is in the Bar Code Data (BDA) structured field.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified for *cols* in the SIZE *rows* BY *cols* parameter on the BCXPARMS subcommand is not valid.

The bar code object might be contained in a MO:DCA document, an overlay, or a page segment, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed

program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2576I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A DESIRED NUMBER OF ROWS VALUE FOR A BAR CODE IS NOT VALID.

Explanation: For a PDF417 symbol, one of these conditions occurred:

- A specified desired number of rows value is not valid.
- The number of rows times the number of data symbol characters is greater than 928.

If the bar code is specified as a bar code object, the error is in the Bar Code Data (BDA) structured field.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified for *rows* in the SIZE *rows* BY *cols* parameter on the BCXPARMS subcommand is not valid.

The bar code object might be contained in a MO:DCA document, an overlay, or a page segment, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2577I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: TOO MUCH DATA WAS SPECIFIED FOR A PDF417 SYMBOL.

Explanation: If the bar code is specified as a bar code object, too much data is specified in a Bar Code Data (BDA) structured field for a PDF417 symbol.

If the bar code is specified with the BARCODE subcommand in a page definition, the length specified by the LENGTH subcommand on a FIELD command containing the BARCODE subcommand picks up too much data for a PDF417 symbol.

The bar code object might be contained in a MO:DCA document, an overlay, or a page segment, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to

PSF for z/OS: Diagnosis for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2578I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A SPECIFIED SECURITY LEVEL VALUE FOR A PDF417 SYMBOL IS NOT VALID.

Explanation: If the bar code is specified as a bar code object, the security level specified in a Bar Code Data (BDA) structured field for a PDF417 symbol is not valid.

If the bar code is specified with the BARCODE subcommand in a page definition, the security level specified by the SECLEV parameter on a BCXPARMS subcommand is not valid.

The bar code object might be contained in a MO:DCA document, an overlay, or a page segment, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2579I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A SPECIFIED LENGTH VALUE FOR A MACRO PDF417 CONTROL BLOCK IS NOT VALID.

Explanation: For a PDF417 symbol, one or more of these occurred:

• A Macro PDF417 Control Block length value in a bar code is not valid.

• The length of a Macro PDF417 Control Block is too large.

If the bar code is specified as a bar code object, the error is in the Bar Code Data (BDA) structured field.

If the bar code is specified with the BARCODE subcommand in a page definition, the *qstring* specified in the MACRO *qstring* parameter on the BCXPARMS subcommand is too long.

The bar code object might be contained in a MO:DCA document, an overlay, or a page segment, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves

separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2580I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: DATA SPECIFIED FOR A MACRO PDF417 CONTROL BLOCK IS NOT VALID.

Explanation: For a PDF417 symbol, an error occurred in the data for a PDF417 macro.

If the bar code is specified as a bar code object, the error is in the Bar Code Data (BDA) structured field.

If the bar code is specified with the BARCODE subcommand in a page definition, the *qstring* specified in the MACRO *qstring* parameter on the BCXPARMS subcommand is not valid.

The bar code object might be contained in a MO:DCA document, an overlay, or a page segment, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object or you created the page definition, correct the error and resubmit the print request. Refer to *Bar Code Object Content Architecture Reference* for more information about bar code objects. Refer to *Page Printer Formatting Aid: User's Guide* for more information about creating page definitions.

If the structured field has no error, the error might be a PSF or printer logic error.

If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2581I   INSUFFICIENT [WCS | CPS | RPS | PST | PBS | INTERNAL] PRINTER STORAGE IS AVAILABLE TO LOAD ALL THE RESOURCES MAPPED IN A RESOURCE ENVIRONMENT GROUP.

Explanation: The printer detected and reported an out-of-storage error with an action code of X'0C' (sense byte2) while loading resources mapped in a Resource Environment Group (REG). A request for raster-pattern storage (RPS), writable-control storage (WCS), compressed-pattern storage (CPS), pattern storage (PST), or page-buffer storage (PBS) exceeded the available storage resources of the printer. If the word INTERNAL is included in the message, the printer does not differentiate between different subpools of storage and therefore merely indicates that its storage has been exceeded. This message is accompanied by a message that presents the printer sense bytes.

System action: PSF issues this message only after it has attempted to resolve the out-of-storage error condition. Any remaining resources mapped in the REG are not loaded into the printer at this time. PSF issues this message and continues processing the data set. If the current environment does not support repositioning, PSF stops processing the data set when it receives the first resource-constraint error.

User response: If data stream errors stopped the processing of the page just before the page for which this message was issued, correct the data stream errors then resubmit the print request. The condition that caused this message to be issued might be resolved once the other errors have been corrected.

If the error is not due to data stream errors, this error occurred because of one of these reasons:
- The REG maps too many resources or the resources are too large.
- A page or a resource is too complex.
- The combination of two sides of a duplexed sheet is too complex.

If the performance of the print request is acceptable, do nothing. If the performance of the print request is not acceptable, either make the REG, page or resource less complex by deleting resources (for example, text, images, page segments, overlays, or fonts) or submit the print request to a printer with more storage.

System programmer response: If the error involves separator pages or the message data set, use the

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information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2582I **THE MAXIMUM NUMBER OF OVERLAYS THE PRINTER WILL ACCEPT MIGHT HAVE BEEN EXCEEDED BY A SIMPLEX PAGE OR BY THE FRONT AND BACK OF A DUPLEX SHEET.**

Explanation: While loading overlays in the printer, the printer detected and reported that an overlay number was out of the valid range. This error might be caused by a simplex page, or by the front and back of a duplex sheet that contains more overlays than the printer can accept.

System action: PSF recovers from the error by deleting any overlays that are not needed for the current sheet at the received page counter and then resending the page. If PSF receives a second occurrence of this error, PSF issues this message and ends. If the current environment does not support repositioning, PSF stops processing the data set.

User response: If data stream errors stopped the processing of the page preceding the page for which this message was issued, correct the data stream errors and resubmit the print request. The condition that caused this message to be issued might be resolved after the other errors have been corrected. If the error is not due to data stream errors, delete some of the overlays on the simplex page or duplex sheet at the received page counter plus 1. If the simplex page or duplex sheet at the received page counter plus 1 does not contain more overlays than the printer can accept, a PSF or printer logic error might have occurred.

System programmer response: If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2583I **AN INCOMPATIBLE CHANGE IN MEDIA DESTINATION WAS REQUESTED DURING A FINISHING OPERATION. THE FINISHING OPERATION IS TERMINATED. PROCESSING OF THE DATA SET CONTINUES.**

Explanation: A finishing operation specified in a Finishing Operation triplet (X'85') is incompatible with the change in the media destination. Because some printers restrict the possible media destination of finished data sets to a subset of all media destinations available, the finishing operation is stopped.

Finishing Operation triplets are specified in the Medium Finishing Control (MFC) structured field. The MFC is specified in the Document Environment Group of the form definition or in a medium map.

Media destination is specified on the OUTPUT statement in the JCL and in a medium map in the form definition.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error

contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

User response: If the output is not acceptable:

- If you have specified OUTBIN on any COPYGROUP commands in your form definition, make sure it selects a media destination that supports finished output.
- Verify that you have requested the appropriate form definition for the finishing operation intended.
- Submit the print request to a printer that can perform the finishing operation.
- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2585I **A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED AN INTERVENTION REQUIRED CONDITION.**

Explanation: A Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer has reported a condition that requires intervention, with an action code of X'0A' (sense byte 2). The specific error is identified in the accompanying message, APS2600I.

System action: PSF resends pages to the printer,

starting from the jam recovery page counter. PSF might print this message on a separate sheet in the data set to mark the position at which it started the recovery from this error. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, contact your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS2586I **A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED AN INTERVENTION REQUIRED CONDITION.**

Explanation: A Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer has reported a condition that requires intervention, with an action code of X'1A' (sense byte 2). The specific error is identified in the accompanying message, APS2600I.

System action: PSF resends pages to the printer, starting from the committed page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which it started the recovery from this error. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, contact your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper from the printer and post processor. PSF assumes that pages between the jam recovery page counter and the stacked page counter are not damaged and do not need to be reprinted. If any pages between these two page counters do need to be reprinted, use the JES BACKSPACE command.

Problem determination: Items 1, 8, 18.

APS2587I **A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES UP3I FINISHING WITH AN INCORRECT OR UNSUPPORTED PARAMETER.**

Explanation: A specification error was detected for a Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device. The specific error code is identified in the accompanying message, APS2600I.

UP3I Finishing Operation triplets (X'8E') are specified in the Medium Finishing Control (MFC) structured field or were generated by the printer for AFP Finishing Operation triplets (X'85') specified in the MFC structured field. The MFC is specified in the Document Environment Group of the form definition or in a medium map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) structured field. The PFC structured field is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

User response: If the output is not acceptable, do one of these:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that supports the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2588I **A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES UP3I FINISHING WITH AN INCORRECT OR UNSUPPORTED PARAMETER.**

Explanation: A function no longer achievable error (action code X'06') was detected for a Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device. The specific error code is identified in the accompanying message, APS2600I.

UP3I Finishing Operation triplets (X'8E') are specified in

the Medium Finishing Control (MFC) structured field or were generated by the printer for AFP Finishing Operation triplets (X'85') specified in the MFC structured field. The MFC is specified in the Document Environment Group of the form definition or in a medium map.

System action: Reporting of this exception can be controlled by the Finishing Fidelity triplet in the Presentation Fidelity Control (PFC) structured field. The PFC structured field is contained in a form definition.

When the Finishing Fidelity triplet sets the continuation rule to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set unprintable. PSF releases the current data set back to JES and requests that it be held by the system unless PRTERROR=QUIT is specified on the OUTPUT statement.

When the Finishing Fidelity triplet sets the continuation rule to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

- If the printer supports the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to DO NOT REPORT (X'02'), the printer reports this exception but PSF does not issue the error message. The printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

- If the printer does not support the PFC Finishing Fidelity triplet and the REPORT field is set to REPORT (X'01'), the printer reports this exception and PSF issues the error message. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action. The finishing operation is not applied or is applied incompletely. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

User response: If the output is not acceptable, do one of these:

- Verify that you have requested the appropriate form definition for the finishing operation intended.

- Submit the print request to a printer that supports the finishing operation.

- If you created the structured fields for the form definition, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* and *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF logic error. If you used a program to create the structured fields for the form definition, contact your system programmer.

- Ensure that the printer and post-processors are set up for the finishing operation and ensure that the operator does not change the set up while the job is printing.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 13, 15c, 17, 19.

APS2589I   A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED AN EQUIPMENT CHECK THAT IS ALSO AN INTERVENTION REQUIRED CONDITION.

Explanation: A Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer has reported an equipment check error that is also an intervention required condition with an action code of X'08' (sense byte 2). The specific error is identified in the accompanying message, APS2600I.

System action: PSF resends pages to the printer, starting from the jam recovery page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which it started the recovery from this error. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might

want to resubmit the print request. If the error condition persists, contact your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS2590I   A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED AN EQUIPMENT CHECK THAT IS ALSO AN INTERVENTION REQUIRED CONDITION.

Explanation: A Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer has reported an equipment check error that is also an intervention required condition with an action code of X'09' (sense byte 2). The specific error is identified in the accompanying message, APS2600I.

For more information about this error, refer to the post processor publications for the printer that reported this error.

System action: PSF resends pages to the printer, starting from the jam recovery page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which it started the recovery from this error. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, contact your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS2591I   A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED AN EQUIPMENT CHECK THAT IS ALSO AN INTERVENTION REQUIRED CONDITION.

Explanation: A Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer has reported an equipment check error that is also an intervention required condition with an action code of X'16' (sense byte 2). The specific

error is identified in the accompanying message, APS2600I.

For more information about this error, refer to the post processor publications for the printer that reported this error.

System action: PSF resends pages to the printer, starting from the jam recovery page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which it started the recovery from this error. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, contact your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS2592I   A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED A PAPER JAM AS AN INTERVENTION REQUIRED CONDITION.

Explanation: A Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer has reported a paper jam, which is an intervention required condition, with an action code of X'08' (sense byte 2). The specific error is identified in the accompanying message, APS2600I.

System action: PSF resends pages to the printer, starting from the committed page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which it started the recovery from this error. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, contact your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS2593I   **A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED AN EQUIPMENT CHECK ERROR THAT CAN NOT BE CORRECTED BY AN OPERATOR.**

Explanation: A Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer has reported an equipment check error that cannot be corrected by an operator, with an action code of X'09' (sense byte 2). The specific error is identified in the accompanying message, APS2600I.

For more information about this error, refer to the post processor publications for the printer that reported this error.

System action: PSF stops printing the data set at the committed page counter plus 1.

User response: Inform your system programmer that this error occurred.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 8, 18.

APS2594I   **A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED AN EQUIPMENT CHECK ERROR THAT CAN NOT BE CORRECTED BY AN OPERATOR.**

Explanation: A Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer has reported an equipment check error that cannot be corrected by an operator, with an action code of X'23' (sense byte 2). The specific error is identified in the accompanying message, APS2600I.

For more information about this error, refer to the post processor publications for the printer that reported this error.

System action: PSF resends pages to the printer, starting from the committed page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which it started the recovery from this error. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, contact your system programmer.

System programmer response: If the error condition

persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: No response is necessary.

Problem determination: Items 1, 8, 18.

APS2595I   **A PARAMETER VALUE IN A FORMDEF RESOURCE IS NOT VALID OR IS UNSUPPORTED: THE MEDIUM FINISHING CONTROL STRUCTURED FIELD SPECIFIES UP3I FINISHING WITH AN INCORRECT OR UNSUPPORTED PARAMETER.**

Explanation: A Data-Related Print exception (action code X'09') was detected for a Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device. The specific error code is identified in the accompanying message, APS2600I.

UP3I Finishing Operation triplets (X'8E') are specified in the Medium Finishing Control (MFC) structured field or were generated by the printer for AFP Finishing Operation triplets (X'85') specified in the MFC structured field. The MFC is specified in the Document Environment Group of the form definition or in a medium map.

System action: PSF stops printing the data set at the committed page counter plus 1.

User response: Inform your system programmer that this error occurred.

System programmer response: If an IBM licensed program was used to create the structured fields for the MFC with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 8, 18.

APS2596I   **A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED A CONDITION REQUIRING HOST NOTIFICATION.**

Explanation: An error condition in a Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer caused the printer to discard its buffered pages. A sheet cannot be printed

because of a problem within the data stream. The printer reports an action code X'09'. The specific error is identified in the accompanying message, APS2600I.

System action: PSF stops printing the data set at the committed page counter plus 1.

User response: Inform your system programmer that this error occurred.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 8, 18.

APS2597I   A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED A CONDITION REQUIRING HOST NOTIFICATION.

Explanation: An error condition in a Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer caused the printer to discard its buffered pages. The printer reports an action code X'1A' to instruct PSF to redrive buffered pages. The specific error is identified in the accompanying message, APS2600I.

System action: PSF resends pages to the printer, starting from the jam recovery page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which it started the recovery from this error. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, contact your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 8, 18.

APS2598I   A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED A CONDITION REQUIRING HOST NOTIFICATION.

Explanation: An error condition in a Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer caused the printer to

discard its buffered pages. At least one of the printer characteristics was changed in the printer. The printer reports an action code X'1D' to instruct PSF to redrive buffered pages. The specific error is identified in the accompanying message, APS2600I.

System action: PSF obtains the new printer characteristics and then resends the pages to the printer starting from the committed page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which it started the recovery from this error. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, contact your system programmer.

System programmer response: If the printer characteristics were not changed at the printer and the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 8, 18.

APS2599I   A UP3I-CONTROLLED DEVICE ATTACHED TO THE PRINTER HAS REPORTED A CONDITION REQUIRING HOST NOTIFICATION.

Explanation: An error condition in a Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer caused the printer to discard its buffered pages. The printer reports an action code X'1A' to instruct PSF to redrive buffered pages. The specific error is identified in the accompanying message, APS2600I.

System action: PSF resends pages to the printer, starting from the jam recovery page counter plus 1. PSF might print this message on a separate sheet in the data set to mark the position at which it started the recovery from this error. Pages might be duplicated during the recovery.

If the current environment does not support repositioning, PSF stops processing the data set.

User response: The printed output might be acceptable. If any pages were duplicated, you might want to resubmit the print request. If the error condition persists, contact your system programmer.

System programmer response: If the error condition persists, follow the procedures described in *PSF for z/OS: Diagnosis* before contacting the IBM Support Center.

Operator Response: Refer to the operator's guide for the printer that reported this error and clear the paper from the printer and postprocessor. PSF assumes that pages between the jam recovery page counter and the stacked page counter are not damaged and do not need to be reprinted. If any pages between these two page counters do need to be reprinted, use the JES BACKSPACE command.

Problem determination: Items 1, 8, 18.

APS2600I   **THE ERROR SENSE BYTES 0–5 =** *error sense bytes 0–5*, **IPDS COMMAND IN PROCESS =** *ipds command*, **UP3I-SPECIFIC ERROR CODE =** *error code*, **UP3I PAPER SEQUENCE ID OF THE DEVICE =** *paper sequence id*, **UP3I-SPECIFIC INFORMATION =** *up3i-specific information*, **BYTE 19 =** *error sense byte 19*, **PAGE IDENTIFIER =** *page id*.

Explanation: This message formats and presents the 24 printer sense bytes that were reported to PSF at the time of an I/O error from a Universal Printer Pre- and Postprocessing Interface (UP3I)-controlled device attached to the printer. A message that describes the specific I/O error accompanies this message. The message contains this information:

- *Error sense bytes 0–5* are the first 6 bytes in the sense data, reported in hexadecimal.

- *IPDS command* is the 2-byte hexadecimal code for the IPDS command that was in process at the time the error occurred. This information was formatted from bytes 6 and 7 of the sense data. A value of X'0000' indicates that the error was not associated with any particular IPDS command.

- *Error code* is the UP3I-specific error code. Refer to the UP3I specification at http://www.up3i.org for a description of the error codes. This information was formatted from bytes 8 and 9 of the sense data.

- *Paper sequence id* is the UP3I paper sequence ID of the device that caused the error. This information was formatted from byte 10 of the sense data.

- *UP3I-specific information*: refer to the UP3I specification at http://www.up3i.org for a description of the content of these bytes. This information was formatted from bytes 11 through 18 of the sense data.

- *Error sense byte 19* is the third byte of the three-byte exception ID; together with sense byte 1, it defines the specific exception within an exception class.

  Note: The error sense is written as Byte 0 Byte 1... Byte 19.

- *Page id* is the page ID from the Begin Page command if the error is associated with a particular page. It is reported in hexadecimal.

System action: See the accompanying messages for the system action taken.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages. For more information about printer sense bytes and the specific error, refer to the UP3I-controlled device publications for the printer that reported this error.

Operator Response: If this message displays on the operator's console, it indicates that PSF cannot be initialized or cannot print a separator page or an error message. Notify your system programmer.

Problem determination: Items 2, 17, 27.

APS2601I   **MICR PRINTING WAS REQUESTED, BUT IS NOT AVAILABLE.**

Explanation: Magnetic ink character recognition (MICR) printing is requested when the Presentation Text Data (PTX) structured field or the Graphics Data (GAD) structured field uses a font that supports MICR. Some printers can print MICR text on one side of the medium, but not the other side. In that case, MICR printing is not available when it is requested on the unsupported side.

System action: PSF cannot print the current data set. PSF stops processing and printing the data set. PSF issues additional messages identifying the processing environment in which the error occurred. PSF releases the current data set back to JES and requests that it be held by the system, unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: If you do not want MICR printing, change the PTX or GAD structured field to not use MICR fonts. If you do want MICR printing, change the data stream to request MICR printing on the supported side, send the job to a different printer that prints MICR on the requested side, or reconfigure this printer to print MICR on the requested side.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 3, 8, 13.

APS2602I   **DATA IN AN INPUT RECORD OR RESOURCE IS NOT SUPPORTED: THE IMAGE RESOLUTION FOR A PRESENTATION OBJECT CONTAINER RESOURCE SPECIFIED A UNIT BASE OF CENTIMETERS BUT THE PRINTER DOES NOT SUPPORT CENTIMETERS.**

Explanation: The image resolution for a presentation object specified a unit base of centimeters, but the

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printer does not support centimeters. Image resolution is specified with the X'9A' triplet on the Container Data Descriptor (CDD), Include Object (IOB), or Preprocess Presentation Object (PPO) structured fields.

The CDD structured field is specified inside the presentation object container resource. The IOB structured field can be contained in a page definition, an overlay, or a MO:DCA page, or it can be embedded in line data. The PPO structured field is specified in the Resource Environment Group (REG) for the print data set.

System action: The printer you were using might try to print the page in error; however, the entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the data object resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the data object resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2603I DATA FOR A RESOURCE IS NOT COMPLETE: THE IMAGE RESOLUTION FOR A PRESENTATION OBJECT IS NEEDED BUT IS NOT SPECIFIED. THE IMAGE IS PRINTED USING THE PRINTER'S RESOLUTION.

Explanation: The image resolution for a presentation object (such as a TIFF, GIF or JPEG image) is needed to process the object, but the resolution was not provided within the presentation object and was not provided by an Image Resolution (X'9A') triplet.

Image resolution is specified with the X'9A' triplet on the Container Data Descriptor (CDD), Include Object (IOB), or Preprocess Presentation Object (PPO) structured fields.

The CDD structured field is specified inside the presentation object container resource. The IOB structured field can be contained in a page definition, an overlay, or a MO:DCA page, or it can be embedded in line data. The PPO structured field is specified in the Resource Environment Group (REG) for the print data set.

System action: The printer prints the image using the printer's resolution. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you created the structured fields for the data object resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the data object resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2604I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE FONT LOCAL IDENTIFIER FOR A MAPPED FONT IS OUTSIDE THE SUPPORTED RANGE FOR THE PRINTER.

Explanation: A font local identifier is outside the supported range for the printer. The font local identifier is specified in:
• The Map Coded Font Format 2 (MCF-2) structured field in the Resource Local Identifier Triplet (X'24').

- The Map Data Resource (MDR) structured field in the Fully Qualified Name Triplet (X'02') with FQNType X'BE' for Data Object fonts.

The MCF-2 and MDR structured fields might be contained in a MO:DCA document, an overlay, or a page definition.

System action: The printer you were using might try to print the page in error; however, the entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page. PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action.

User response: If you were printing MO:DCA data or an overlay and you created the structured field in error, make sure the font local identifier that you have specified is supported by your printer. If you used a program to create the structured fields in the object containing the error, contact your system programmer.

If you were printing a data set containing line data and you were using a page definition that you created, ensure that the font local identifier specified in the MCF-2 or MDR structured field is within the supported range for your printer. If the font local identifier is within the supported range for the printer, this is a printer logic error. If the font local identifier is outside the supported range for the printer, either change the font local identifier so it is within the supported range or route your job to a printer that supports your font local identifier value.

Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured fields.

System programmer response: If an IBM licensed program was used to create the structured fields for the print data set or resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the structured field containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2611I   THE TRUETYPE OR OPENTYPE COLLECTION FONT INDEX VALUE FOR A LINKED FONT IS NOT VALID.

Explanation: An index value specified in a TrueType or OpenType Collection Font Index table vector (X'1A') does not correspond to any TrueType or OpenType font in the collection. The TrueType/OpenType Collection Font Index table vector (X'1A') is located in the resource

access table (RAT), which is installed on a given system by a product such as InfoPrint AFP Resource Installer.

System action: PSF stops processing and printing the data set.

User response: If you created the table vectors for the RAT, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the RAT. If the table vector has no error, the error might be a printer logic error or a PSF error. If you used a program to create the table vector for the RAT, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the table vectors for the RAT with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2612I   A FULL FONT NAME USED TO IDENTIFY A PARTICULAR LINKED TRUETYPE OR OPENTYPE FONT WITHIN THE COLLECTION IS NOT VALID.

Explanation: The fully qualified name in the Fully Qualified Name triplet (X'02') with FQNType X'6E' in the Begin Resource (BRS, also called BR) structured field is not valid. There is no TrueType or OpenType font in the collection for this full font name. The BRS structured field is found in a print-file level resource group.

System action: PSF stops processing and printing the data set.

User response: If you created the structured fields for the BRS, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the BRS, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the BRS with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource

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containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2613I THE FONT TECHNOLOGY VALUE IN A DATA OBJECT FONT DESCRIPTOR TRIPLET (X'8B') IS NOT VALID.

Explanation: The font technology value in a Data Object Font Descriptor triplet (X'8B') on a Map Data Resource (MDR) structured field is not valid or it does not match the actual technology of the font. The MDR can be found in a Resource Environment Group (REG) for a document or for a group of pages in a document or in the Active Environment Group (AEG) of the page or overlay.

System action: PSF stops processing and printing the data set.

User response: If you created the triplets for the MDR, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the triplet. If the triplet has no error, the error might be a printer logic error or a PSF error. If you used a program to create the triplets for the MDR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the triplets for the MDR with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2614I THE VERTICAL FONT SIZE VALUE IN A DATA OBJECT FONT DESCRIPTOR TRIPLET (X'8B') IS NOT VALID.

Explanation: The vertical font size in a Data Object Font Descriptor triplet (X'8B') on a Map Data Resource (MDR) structured field is not valid. The MDR can be found in a Resource Environment Group (REG) for a document or for a group of pages in a document or in the Active Environment Group (AEG) of the page or overlay.

System action: PSF stops processing and printing the data set.

User response: If you created the triplets for the MDR, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture*

Reference for more information about the triplet. If the triplet has no error, the error might be a printer logic error or a PSF error. If you used a program to create the triplets for the MDR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the triplets for the MDR with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2615I THE HORIZONTAL SCALE FACTOR VALUE IN A DATA OBJECT FONT DESCRIPTOR TRIPLET (X'8B') IS NOT VALID.

Explanation: The horizontal scale factor in a Data Object Font Descriptor triplet (X'8B') on a Map Data Resource (MDR) structured field is not valid. The MDR can be found in a Resource Environment Group (REG) for a document or for a group of pages in a document or in the Active Environment Group (AEG) of the page or overlay.

System action: PSF stops processing and printing the data set.

User response: If you created the triplets for the MDR, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the triplet. If the triplet has no error, the error might be a printer logic error or a PSF error. If you used a program to create the triplets for the MDR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the triplets for the MDR with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2616I   THE CHARACTER ROTATION VALUE IN A DATA OBJECT FONT DESCRIPTOR TRIPLET (X'8B') IS NOT VALID.

Explanation: The character rotation value in a Data Object Font Descriptor triplet (X'8B') on a Map Data Resource (MDR) structured field is not valid. The MDR can be found in a Resource Environment Group (REG) for a document or for a group of pages in a document or in the Active Environment Group (AEG) of the page or overlay.

System action: PSF stops processing and printing the data set.

User response: If you created the triplets for the MDR, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the triplet. If the triplet has no error, the error might be a printer logic error or a PSF error. If you used a program to create the triplets for the MDR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the triplets for the MDR with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2617I   THE ENCODING ENVIRONMENT VALUE IN A DATA OBJECT FONT DESCRIPTOR TRIPLET (X'8B') IS NOT VALID.

Explanation: The encoding environment value in a Data Object Font Descriptor triplet (X'8B') on a Map Data Resource (MDR) structured field is not valid. The MDR can be found in a Resource Environment Group (REG) for a document or for a group of pages in a document or in the Active Environment Group (AEG) of the page or overlay.

System action: PSF stops processing and printing the data set.

User response: If you created the triplets for the MDR, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the triplet. If the triplet has no error, the error might be a printer logic error or a PSF error. If you used a program to create

the triplets for the MDR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the triplets for the MDR with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2618I   THE ENVIRONMENT-SPECIFIC ENCODING IDENTIFIER VALUE IN A DATA OBJECT FONT DESCRIPTOR TRIPLET (X'8B') IS NOT VALID.

Explanation: The environment-specific encoding identifier value in a Data Object Font Descriptor triplet (X'8B') on a Map Data Resource (MDR) structured field is not valid. The MDR can be found in a Resource Environment Group (REG) for a document or for a group of pages in a document or in the Active Environment Group (AEG) of the page or overlay.

System action: PSF stops processing and printing the data set.

User response: If you created the triplets for the MDR, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the triplet. If the triplet has no error, the error might be a printer logic error or a PSF error. If you used a program to create the triplets for the MDR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the triplets for the MDR with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2619I   THE UNICODE DATA IN A GRAPHICS OBJECT CHARACTER STRING IS NOT VALID.

Explanation: One of these errors occurred in the Graphics Data (GAD) structured field:

- A high-order surrogate code value was not immediately followed by a low-order surrogate code value. The high-order surrogate range is U+D800 through U+DBFF.

- A low-order surrogate code value was not immediately preceded by a high-order surrogate code value. The low-order surrogate range is U+DC00 through U+DFFF.

- An incorrect UTF-8 byte sequence, as defined in the Unicode specification, was specified.

  The UTF-8 error cases are:

  – The value in the first byte of the UTF-8 sequence was not in the valid UTF-8 range (X'00'-X'7F' and X'C2'-X'F4').

  – The value in the second byte of the UTF-8 sequence was not in the valid UTF-8 range allowed by the first byte. The valid ranges for the second byte are:

First Byte	Second Byte
X'C2'-X'DF'	X'80'-X'BF'
X'E0'	X'A0'-X'BF'
X'E1'-X'EC'	X'80'-X'BF'
X'ED'	X'80'-X'9F'
X'EE'-X'EF'	X'80'-X'BF'
X'F0'	X'90'-X'BF'
X'F1'-X'F3'	X'80'-X'BF'
X'F4'	X'80'-X'8F'

  – The value in the third or fourth byte of the UTF-8 sequence was not in the valid UTF-8 range for that byte (X'80'-X'BF').

  For a formal definition of UTF-8, refer to the Unicode specification at the Unicode Web page: http://www.unicode.org

The GAD structured field is contained in a graphics object. The graphics object might be contained in a MO:DCA document or an overlay, or it might be embedded in a data set that contains line data.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains the Unicode code value in error, as follows:

- When a high-order surrogate code value was not immediately followed by a low-order surrogate code value, bytes 16–17 contain the high-order surrogate code value.

- When a low-order surrogate code value was not immediately preceded by a high-order surrogate code value, bytes 16–17 contain the low-order surrogate code value.

- When a UTF-8 code value sequence that is not valid was specified, bytes 16–17 contain the first two bytes of the UTF-8 code value sequence.

System action: The printer might try to print the page with the error. The entire page might not be printed. If the page with the error contains any positioning errors, then print-error markers might be included on the printed page.

PSF continues processing the current data set with the page following the page in error unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the data for the GAD, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the contents of the GAD. If the data has no error, the error might be a printer logic error or a PSF error. If you used a program to create the data for the GAD, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the data for the GAD with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2620I   THE UNICODE DATA IN THE PRINT DATA IS NOT VALID.

Explanation: One of these errors occurred in the Presentation Text (PTX) command data or line data:

- A high-order surrogate code value was not immediately followed by a low-order surrogate code value. The high-order surrogate range is U+D800 through U+DBFF.

- A low-order surrogate code value was not immediately preceded by a high-order surrogate code value. The low order surrogate range is U+DC00 through U+DFFF.

- An incorrect UTF-8 byte sequence, as defined in the Unicode specification, was specified.

  The UTF-8 error cases are:

– The value in the first byte of the UTF-8 sequence was not in the valid UTF-8 range (X'00'-X'7F' and X'C2'-X'F4').
– The value in the second byte of the UTF-8 sequence was not in the valid UTF-8 range allowed by the first byte. The valid ranges for the second byte follow:

First Byte	Second Byte
X'C2'-X'DF'	X'80'-X'BF'
X'E0'	X'A0'-X'BF'
X'E1'-X'EC'	X'80'-X'BF'
X'ED'	X'80'-X'9F'
X'EE'-X'EF'	X'80'-X'BF'
X'F0'	X'90'-X'BF'
X'F1'-X'F3'	X'80'-X'BF'
X'F4'	X'80'-X'8F'

– The value in the third or fourth byte of the UTF-8 sequence was not in the valid UTF-8 range for that byte (X'80'-X'BF').

For a formal definition of UTF-8, refer to the Unicode specification at the Unicode Web page: http://www.unicode.org

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains the Unicode code value in error, as follows:
- When a high-order surrogate code value was not immediately followed by a low-order surrogate code value, bytes 16–17 contain the high-order surrogate code value.
- When a low-order surrogate code value was not immediately preceded by a high-order surrogate code value, bytes 16–17 contain the low-order surrogate code value.
- When a UTF-8 code value sequence that is not valid was specified, bytes 16–17 contain the first two bytes of the UTF-8 code value sequence.

System action: Your printer might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

PSF continues processing the current data set with the page following the page in error unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the data for the PTX, correct the error and resubmit the print request. Refer to *Presentation Text Object Content Architecture Reference* for more information about the structured field. If the PTX data has no error, the error might be a

printer logic error or a PSF error. If you used a program to create the data for the PTX, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the data for the PTX with the error, verify that the input to that program was valid. If the input was valid, refer to *Presentation Text Object Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2621I   AN UNKNOWN GRAPHIC CHARACTER GLOBAL ID (GCGID) VALUE WAS FOUND WITHIN A CODE PAGE USED WITH A DATA OBJECT FONT.

Explanation: The printer does not recognize the GCGID found in the code page used with a data object font. One of these conditions has occurred:
- The GCGID was not mapped to a Unicode value by the printer's GCGID to Unicode mapping table or by the Unicode extended code page.
- The GCGID is defined in a Unicode extended code page that the printer does not support, so the Unicode mapping is not being used by the printer. To see if your printer supports Unicode extended code pages, display the printer information report and see if the Sense Type and Model (STM) Loaded-Font Command-Set Vector contains the X'B005' - Extended (Unicode mapping) code page support property pair.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains the unknown character's code point. For double-byte code pages, byte 16 contains the section ID and byte 17 contains the second byte of the code point. For single-byte code pages, byte 17 contains the code point.

System action: Your printer might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

PSF continues processing the current data set with the page following the page in error unless the printer reported another error that required a more severe PSF recovery action.

User response: If the GCGID is not defined and you created the data for the code page, correct the error and resubmit the print request. If the GCGID is defined

in a Unicode extended code page, verify which printer supports these code pages and submit the print request to a supporting printer. Refer to the *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the code page. If the code page has no error, the error might be a printer logic error or a PSF error. If you used a program to create the data for the code page, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the data for the code page with the error, verify that the input to that program was valid. If the input was valid, refer to the *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2622I   RESOURCE *resource name* COULD NOT BE RASTERIZED BECAUSE AN X-AXIS ORIGIN OR Y-AXIS ORIGIN WAS SPECIFIED THAT THE PRINTER DOES NOT SUPPORT.

Explanation: An X-axis origin for object content or Y-axis origin for object content that the printer does not support was specified in the Preprocess Presentation Object (PPO) structured field. One or more of these conditions occurred:

- A negative XocaOset or YocaOset value was specified in a PPO structured field, but the printer does not support negative offsets.
- A valid XocaOset or YocaOset value was specified in a PPO structured field, but the printer does not support that value with the specified units of measure.

The PPO structured field can be specified in a Resource Environment Group (REG) following Map Data Resources (MDRs) and Map Page Overlays (MPOs).

System action: PSF stops processing the REG and continues processing the data set.

User response: If you created the structured fields for the PPO, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a printer logic error or a PSF error. If you used a program to create the structured fields for the PPO contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured field for the PPO with the error, verify that the input to that program was valid. If the input was valid, refer to *Mixed Object Document Content Architecture Reference* and *PSF for z/OS: Customization* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS2623I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: CONVERSION VALUE FOR A QR CODE BAR CODE SYMBOL IS NOT VALID OR IS UNSUPPORTED.

Explanation: The conversion value specified in the Bar Code Symbol Data (BSA) structure in a Bar Code Data (BDA) structured field is not valid or is unsupported.

The BDA structured field is contained in a bar code object. The bar code object might be contained in a MO:DCA document, an overlay, or might be associated with a data set containing line data.

The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource

containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2624I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE VERSION VALUE FOR A QR CODE BAR CODE SYMBOL IS NOT VALID.

Explanation: The version parameter value specified in the Bar Code Symbol Data (BSA) data structure in a Bar Code Data (BDA) structured field is not valid.

The BDA structured field is contained in a bar code object. The bar code object might be contained in a MO:DCA document, an overlay, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2625I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE ERROR-CORRECTION-LEVEL VALUE FOR A QR CODE BAR CODE SYMBOL IS NOT VALID.

Explanation: The error-correction-level parameter value specified in the Bar Code Symbol Data (BSA) data structure in a Bar Code Data (BDA) structured field is not valid.

The BDA structured field is contained in a bar code object. The bar code object might be contained in a MO:DCA document, an overlay, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2626I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN INCOMPATIBLE COMBINATION OF SPECIAL-FUNCTION FLAGS WAS SPECIFIED FOR A QR CODE BAR CODE SYMBOL.

Explanation: An incompatible combination of

special-function flags was specified in the Bar Code Symbol Data (BSA) data structure in a Bar Code Data (BDA) structured field. Only one of the FNC1 flags can be B'1'.

The BDA structured field is contained in a bar code object. The bar code object might be contained in a MO:DCA document, an overlay, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2627I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE APPLICATION-INDICATOR VALUE FOR A QR CODE BAR CODE SYMBOL IS NOT VALID.

Explanation: The application-indicator value specified in the Bar Code Symbol Data (BSA) data structure in a Bar Code Data (BDA) structured field is not valid.

The BDA structured field is contained in a bar code object. The bar code object might be contained in a MO:DCA document, an overlay, or might be associated with a data set containing line data.

System action: The printer you were using might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action.

User response: If you created the structured fields for the bar code object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2628I   INTERVENTION REQUIRED, DEV=*pppp***, LUNAME=***luname***.**

Explanation: A condition that requires intervention, such as a paper jam, has occurred on an SNA-attached printer. The message uses these variables to describe the printer:

pppp   is the printer device type; for example, 3816.

luname specifies the SNA logical unit name of the SNA-attached printer.

System action: PSF stops processing. When the intervention condition is cleared, this message is deleted and PSF continues processing.

User response: No response is necessary.

System programmer response: If you do not want this message to be issued for this printer, set the Exit 7 XTP7IMSG flag to B'0' or set the Issue intervention messages value in the Printer Inventory to NO.

Operator Response: When this message displays on the console, it indicates that there is a condition that

requires intervention at an SNA-attached printer. Refer to the operator's guide for the printer that reported this condition, and clear the condition at the printer. If you do not want this message to be issued for this printer, contact your system programmer.

Problem determination: Items 1, 8, 18.

APS2629I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: DATA IN A UCC/EAN 128 OR RSS EXPANDED BAR CODE IS NOT VALID.

Explanation: If your bar code is specified as a bar code object, the data specified in the Bar Code Symbol Data (BSA) data structure in a Bar Code Data (BDA) structured field is not valid.

If your bar code is specified with the BARCODE subcommand in a page definition, the data selected by the START and LENGTH subcommands on the FIELD command is not valid.

One or more of these conditions exists:
- FNC1 is not the first data character.
- An application identifier (ai) value is not valid.
- Data for an ai does not match the ai definition.
- Insufficient data, or no data, follows an ai.
- There is too much data for an ai.
- The FNC1 character is used incorrectly.

The bar code object might be contained in a MO:DCA document or an overlay, or might be associated with a data set that contains line data.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains the application ID (ai) value for the bad data. The ai value is read as four decimal digits, with leading zeroes if necessary. For example, ai = 01 is shown as X'0001' and ai = 8005 is shown as X'8005' in bytes 16–17.

System action: The printer might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to the *Bar Code Object Content Architecture Reference* for more information. If the data has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program is valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2630I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE COMBINATION OF ELEMENT HEIGHT AND HEIGHT MULTIPLIER VALUES FOR A REDUCED SPACE SYMBOLOGY (RSS) BAR CODE IS NOT VALID FOR THE MODIFIER SELECTED.

Explanation: If the bar code is specified as a bar code object, the combination of element height and height multiplier values specified in the Bar Code Symbol Data (BSA) data structure in a Bar Code Data (BDA) structured field is not valid for the modifier selected.

If the bar code is specified with the BARCODE subcommand in a page definition, the value specified for the HEIGHT subcommand on the FIELD command is not valid.

The bar code object might be contained in a MO:DCA document or an overlay, or might be associated with a data set that contains line data.

System action: The printer might try to print the page in error. The entire page might not be printed. If the page in error contains any positioning errors, print-error markers might be included on the printed page.

PSF continues processing the current data set with the page following the page in error, unless the printer reports another error that requires a more severe PSF recovery action

User response: If you created the structured fields for the bar code object or the page definition, correct the error and resubmit the print request. Refer to the *Bar Code Object Content Architecture Reference* for more information. If the data has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the bar code object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the bar code object with the error, verify that the input to that program is valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator

pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page or the message data set in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 3, 8, 13, 17.

APS2633I   DATA IN A COLOR MANAGEMENT RESOURCE IS NOT VALID: THE LENGTH VALUE IN THE CMR HEADER FOR A COLOR MANAGEMENT RESOURCE IS NOT VALID.

Explanation: The length field in the CMR header for a color management resource (CMR) is not valid.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains X'EFF*a*', where *a* identifies the specific field within the header.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
* If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
* If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in

error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the tags for the CMR, correct the error and resubmit the print request. Refer to *Color Management Object Content Architecture Reference* for more information about the tag. If the tag has no error, the error might be a printer logic error. If you used a program to create the tags for the CMR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the tags for the CMR with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2634I   DATA IN A COLOR MANAGEMENT RESOURCE IS NOT VALID: UNSUPPORTED TAGID VALUE IN A CMR TAG.

Explanation: The CMR Data field for a color management resource (CMR) contains an unsupported TagID value.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains the CMR TagID value for the tag that caused the error.

System action: Reporting of this exception can be controlled by the CMR Tag Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the CMR Tag Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the CMR Tag Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
* If the printer supports the PFC CMR Tag Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page

following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

- If the printer does not support the PFC CMR Tag Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the tags for the CMR, correct the error and resubmit the print request. Refer to *Color Management Object Content Architecture Reference* for more information about the tag. If the tag has no error, the error might be a printer logic error. If you used a program to create the tags for the CMR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the tags for the CMR with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2635I   DATA IN A COLOR MANAGEMENT RESOURCE IS NOT VALID: THE COUNT VALUE IN A CMR TAG IS NOT VALID.

Explanation: The CMR Data field for a color management resource (CMR) contains a tag with a Count value that is not valid.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains the CMR TagID value for the tag that caused the error.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
- If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the tags for the CMR, correct the error and resubmit the print request. Refer to *Color Management Object Content Architecture Reference* for more information about the tag. If the tag has no error, the error might be a printer logic error. If you used a program to create the tags for the CMR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the tags for the CMR with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure.

Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2636I   DATA IN A COLOR MANAGEMENT RESOURCE IS NOT VALID: THE FIELDTYPE VALUE IN A CMR TAG IS NOT VALID.

Explanation: The CMR Data field for a color management resource (CMR) contains a tag with a Fieldtype value that is not valid.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains the CMR TagID value for the tag that caused the error.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
- If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the tags for the CMR, correct the error and resubmit the print request. Refer to *Color Management Object Content Architecture Reference* for more information about the tag. If the tag has no error, the error might be a printer logic error. If you used a program to create the tags for the CMR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the tags for the CMR with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2637I   DATA IN A COLOR MANAGEMENT RESOURCE IS NOT VALID: MISSING REQUIRED CMR TAG.

Explanation: The CMR Data field for a color management resource (CMR) is missing a required tag for its CMR type.

Note: The Element Identifier bytes 16–17 in the formatted sense message contain the CMR TagID value for the tag that caused the error.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
- If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.

• If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the tags for the CMR, correct the error and resubmit the print request. Refer to *Color Management Object Content Architecture Reference* for more information about the tag. If the tag has no error, the error might be a printer logic error. If you used a program to create the tags for the CMR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the tags for the CMR with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2638I   DATA IN A COLOR MANAGEMENT RESOURCE IS NOT VALID: THE SEQUENCE OF CMR TAGS SPECIFIED IS NOT VALID.

Explanation: The CMR Data field for a color management resource (CMR) contains tags out of sequence. Tags in a CMR must be specified in increasing order by their TagIDs.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains the CMR TagID value for the tag that caused the error.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was

specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
• If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
• If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the tags for the CMR, correct the error and resubmit the print request. Refer to *Color Management Object Content Architecture Reference* for more information about the tag. If the tag has no error, the error might be a printer logic error. If you used a program to create the tags for the CMR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the tags for the CMR with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2639I   DATA IN A COLOR MANAGEMENT RESOURCE IS NOT VALID: THE FIELD VALUE IN A CMR HEADER OR CMR TAG IS NOT VALID OR IS UNSUPPORTED.

Explanation: The CMR Data field for a color

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management resource (CMR) contains a tag with a field value that is not valid or is unsupported.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains the CMR TagID value for the tag that caused the error. For errors in the CMR header, the Element Identifier (bytes 16–17) contains X'EFF*a*' where *a* identifies the specific field within the header.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
- If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the tags for the CMR, correct the error and resubmit the print request. Refer to *Color Management Object Content Architecture Reference* for more information about the tag. If the tag has no error, the error might be a printer logic error. If you used a program to create the tags for the CMR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the tags for the CMR with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2640I **DATA IN A COLOR MANAGEMENT RESOURCE IS NOT VALID: INCONSISTENT CMR TAG CONTENTS.**

Explanation: The CMR Data field for a color management resource (CMR) contains a tag with inconsistent or conflicting values. For example, the count field and the number of components in the tag do not match.

Note: In the formatted sense message (APS830I), the Element Identifier (bytes 16–17) contains the CMR TagID value for the tag that caused the error.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
- If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless

the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the tags for the CMR, correct the error and resubmit the print request. Refer to *Color Management Object Content Architecture Reference* for more information about the tag. If the tag has no error, the error might be a printer logic error. If you used a program to create the tags for the CMR, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the tags for the CMR with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2641I **DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: A COLOR MANAGEMENT RESOURCE IS NOT AVAILABLE.**

Explanation: A color management resource (CMR) is needed to process specific print data. However, a CMR is unavailable because the printer does not have a default CMR for that type of color data and a host-invoked CMR is not supplied. The device default CMRs defined in the *Color Management Object Content Architecture Reference* must be supported by the printer, but defaults for other color spaces are optional and a host-invoked CMR must be supplied.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: Refer to *Color Management Object Content Architecture Reference* for more information about device default CMRs. If a device default CMR should have been supported by the printer this might be a printer logic error. If the device default CMR is optional for this color space then the required CMR must be specified on the host. The CMR can be mapped directly in the job or indirectly through the resource access table (RAT). If you used a program to create the structured fields for the job or to install the resources in a RAT, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the data set with the error, verify that the input to that program was valid. If the missing CMR has not been installed in the RAT or has not been correctly mapped to a data object resource, update the RAT using the a product such as InfoPrint AFP Resource Installer. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2644I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE INVOKED, MEDIA-SPECIFIC INSTRUCTION CMR DOES NOT MATCH THE SELECTED MEDIA.

Explanation: An invoked, instruction color management resource (CMR) is requested, but the media-specific fields in the CMR header do not match the current media used by the printer for this sheet.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

*   If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
*   If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is unacceptable, refer to *Color Management Object Content Architecture Reference* for more information about the rules for matching media-specific fields with media type on the printer:

*   If the wrong media was loaded in the printer, correct the error and resubmit the job.
*   If the loaded media is correct, but the media characteristics selected by the printer operator do not match the loaded media, contact your printer operator to correct the error and resubmit the job.
*   If the media-specific instruction CMR is not what you intended, change the structured fields in the job that specify the incorrect CMR to specify the correct media-specific instruction CMR.
*   If the job does not explicitly map the incorrect CMR, the incorrect CMR might have been associated with the job through the resource access table (RAT). If you created the data object RAT or CMR RAT used by this job, make sure the correct media-specific instruction CMR is installed and mapped to the appropriate data object resources. Otherwise, contact your system programmer.
*   If the media-specific CMR should have matched the media used by the printer, this might be a printer logic error.

System programmer response: If an IBM licensed program was used to create the structured fields for the job with the error or the CMR in the RAT, verify that the input to that program was valid. If the correct media-specific instruction CMR has not been installed or has not been correctly mapped to a data object resource, update the RAT using a product such as InfoPrint AFP Resource Installer. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2645I DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE REQUESTED GENERIC CMR IS NOT SUPPORTED.

Explanation: A generic color management resource (CMR) is selected, but the printer does not have the appropriate device-specific CMR to use in place of the generic CMR.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was

specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
- If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the CMR resource access table (RAT) being used by this job, then install the required device-specific CMR. Otherwise, contact your system programmer.

System programmer response: If an IBM licensed program was used to install the CMRs, verify that the input to that program was valid. If the required device-specific CMR has not been installed in the RAT or has not been correctly mapped to a data object resource, update the RAT using a product such as InfoPrint AFP Resource Installer. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2646I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: AN INVOKED, SELECTED CMR WAS NOT USED. THE PRINTER USED AN APPROPRIATE DEFAULT CMR.

Explanation: A color management resource (CMR) is invoked and selected for use, but cannot be used. The selected CMR is valid, but is not appropriate for one of these reasons:
- A printer-operator control has been invoked to achieve a specific look that overrides a user-specified tone transfer curve CMR.
- A selected halftone CMR is not appropriate for the printer; for example, a threshold-array halftone is invoked and selected for use with an ink jet printer, or an error-diffusion halftone is invoked and selected for use with a laser printer.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
- If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If the output is unacceptable, do these:
- Verify that a print-operator control did not override your CMR.
- If you created the structured fields in your job specifying the CMR in error, verify that the appropriate CMR is being specified for the printer being used.

System programmer response: If an IBM licensed program was used to create the tags for the CMR with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2647I   THE PRINTER DETECTED A COLOR RELATED ERROR WITHIN A PRESENTATION OBJECT CONTAINER RESOURCE. CODE = (*code and brief description***).**

Explanation: The printer has detected a color-related error in a data object resource. For a complete list of the error codes and descriptions, refer to *Intelligent Printer Data Stream Reference*.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:
- If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold it unless PRTERROR=QUIT was specified on the OUTPUT statement. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF reports this exception if the REPORT field is set to REPORT. PSF stops processing the data set that was being processed at the time of the error and marks the data set as

unprintable. PSF releases the current data set back to JES and requests that the system hold it unless PRTERROR=QUIT was specified on the OUTPUT statement.

User response: If you created the structured fields for the object container resource, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* or *Advanced Function Presentation: Programming Guide and Line Data Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the object container resource, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS2648I   DATA IN AN INPUT RECORD OR RESOURCE IS NOT VALID: THE SPECIFIED SET EXTENDED BILEVEL IMAGE COLOR VALUE IS NOT VALID.

Explanation: A Set Extended Bilevel Image Color value for an image object is not valid. The Set Extended Bilevel Image Color self-defining field is located in the Image Data Descriptor (IDD) structured field. The IDD structured field is located in an image object. The image object might be contained in a MO:DCA document, overlay, or page segment; or embedded in a data set containing line data.

System action: Reporting of this exception can be controlled by the Color Fidelity triplet in the Presentation Fidelity Control (PFC) command. The PFC command is contained in a form definition.

When the Color Fidelity triplet sets the CONTINUE field equal to STOP (X'01'), PSF stops processing the data set that was being processed at the time of the error and marks the data set as unprintable. PSF releases the current data set back to JES and requests that the system hold the data set unless PRTERROR=QUIT was specified on the OUTPUT statement.

When the Color Fidelity triplet sets the CONTINUE field equal to DO NOT STOP (X'02'), one of these occurs:

- If the printer supports the PFC Color Fidelity triplet, the printer reports this exception if the REPORT field is set to REPORT. PSF continues processing the current data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page. If the REPORT field was set to DO NOT REPORT (X'02'), the printer does not report this error to PSF but takes its continuation action and continues processing the page.
- If the printer does not support the PFC Color Fidelity triplet, this exception might or might not be reported. In either case, the printer takes its continuation action for the page and PSF continues processing the data set with the page following the page in error, unless the printer reported another error that required a more severe PSF recovery action. The printer you are using might attempt to print the page in error, but the entire page might not be printed. If the page in error contains any positioning errors, then print-error markers might be included on the printed page.

User response: If you created the structured fields for the image object, correct the error and resubmit the print request. Refer to *Mixed Object Document Content Architecture Reference* for more information about the structured field. If the structured field has no error, the error might be a PSF or printer logic error. If you used a program to create the structured fields for the image object, contact your system programmer.

System programmer response: If an IBM licensed program was used to create the structured fields for the image object with the error, verify that the input to that program was valid. If the input is valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 18.

APS3000I THE RDJFCB TYPE X'13' SYSTEM FUNCTION IS NOT SUPPORTED BY THIS SYSTEM AND PSF REQUIRES THIS SUPPORT. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: The RDJFCB type X'13' system function is not supported by this system. You are running with a down-level DFP or operating system or both. The minimum operating system level is MVS/XA™ 2.2.0, and the minimum MVS/DFP™ level is 2.3.0 for this RDJFCB support.

System action: The PSF initialization is stopped.

User response: No response is necessary.

System programmer response: Ensure that PSF is installed on a system which supports the RDJFCB type X'13' system function with the appropriate level of DFP. See Explanation for minimum levels.

If you are on a system at the appropriate level, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: Inform your system programmer that this error has occurred.

Problem determination: Items 1, 17, 19, 27.

APS3001I THE RDJFCB TYPE X'13' SYSTEM FUNCTION WAS UNSUCCESSFUL — RETURN CODE *return code*. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: The RDJFCB type X'13' system function was unsuccessful. An RDJFCB macro request was issued to obtain the data set names of a library, and a nonzero code was returned.

System action: The PSF initialization is stopped.

User response: No response is necessary.

System programmer response: Correct the problem in response to the system return code identified in this message. Refer to *z/OS DFSMSdfp Advanced Services* for information on the hexadecimal return code. See information on the ARLRCODE field.

Operator Response: Inform your system programmer that this error has occurred.

Problem determination: Items 1, 17, 19, 27.

APS3002I THE OBTAIN SYSTEM FUNCTION WAS UNSUCCESSFUL FOR DATA SET NAME *data set name* — RETURN CODE *return code*. PLEASE NOTIFY YOUR SYSTEM PROGRAMMER.

Explanation: The system OBTAIN(reading by Data Set Name) function was unsuccessful and the return code indicates the cause.

System action: PSF is ended.

User response: No response is necessary.

System programmer response: Correct the problem in response to the system return code identified in the message. Refer to *z/OS DFSMSdfp Advanced Services* for the meaning of the OBTAIN hexadecimal return code.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 2, 17, 19, 27.

APS3005I   **PSF CANNOT PROCESS THE FONTPATH LIBRARY FOR DD STATEMENT (***ddname***) BECAUSE PSF IS NOT UNICODE ENABLED. THE SYSTEM PROGRAMMER CAN ENABLE UNICODE FOR PSF USING THE 'PARM=' FIELD IN THE PSF STARTUP PROCEDURE. PROCESSING CONTINUES.**

Explanation: The font path library specified in the PSF startup procedure cannot be processed because PSF is not Unicode-enabled.

System action: PSF continues processing the data set.

User response: Inform your system programmer that this error occurred.

System programmer response: Enable Unicode in PSF by using the PARM parameter on the JCL EXEC statement of the PSF startup procedure. The syntax is:

```
//nnn EXEC PGM=APSPPIEP, PARM=(,,,,,UNICODE)
```

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS3006I   **PSF CANNOT PROCESS THE USERPATH PARAMETER FOR OUTPUT STATEMENT (***outputname***) BECAUSE PSF IS NOT UNICODE ENABLED. THE SYSTEM PROGRAMMER CAN ENABLE UNICODE FOR PSF USING THE 'PARM=' FIELD IN THE PSF STARTUP PROCEDURE. PROCESSING CONTINUES.**

Explanation: The user path parameter specified in the OUTPUT JCL statement cannot be processed because PSF is not Unicode-enabled.

System action: PSF continues processing the data set.

User response: Inform your system programmer that this error occurred.

System programmer response: Enable Unicode in PSF by using the PARM parameter on the JCL EXEC statement of the PSF startup procedure. The syntax is:

```
//nnn EXEC PGM=APSPPIEP, PARM=(,,,,,UNICODE)
```

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Item 1.

APS3500I   **THE FONT MENTIONED IN THE MESSAGE ABOVE HAS A GLOBAL RESOURCE IDENTIFIER (GRID) OF 'grid'. THE COMPONENTS OF THE GRID (SPECIFIED AS DECIMAL VALUES) ARE: GCSGID=** *gscgid***, CPGID=** *cpgid***, FGID=** *fgid***, AND FONT WIDTH=** *font width***.**

Explanation: This message is issued in addition to the message that describes the error. It is intended as additional diagnostic information. The font being processed at the time of the error is listed in this message by its GRID and GRID components (GSCSGID, CPGID, FGID, and font width). The GRID is presented as a hexadecimal value and the GRID components are specified as decimal values.

System action: The printing disposition depends on the error described in the accompanying messages.

User response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

System programmer response: To determine an appropriate response, see the specific error conditions described in the accompanying messages.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is specified, in this case, for use with a separator page or message data set in the PSF startup procedure. Inform your system programmer that this error occurred.

Problem determination: Items 1, 2, 3, 8, 15, 17.

APS3501I   **DATA OBJECT RESOURCE TYPE (***type string***), NAME (***member***) OR OBJECT ID (***object oid***), HAS AN UNSUPPORTED REGISTRATION ID (***object-type oid***).**

Explanation: The registration ID (*object-type oid*) for the specified data object resource is not supported by either the printer or PSF. The registration ID is specified in the object classification triplet on one of these sturctured fields:

- Include Object (IOB)
- Begin Object Container (BOC)
- Begin Resource (BRS, also called BR)
- Map Data Resource (MDR)

If the data object resource type string in this message is '(*******)', PSF or the printer does not support the resource type.

Any message inserts (enclosed in parentheses) in this message that are not available or that do not apply to this instance of this message are specified as '(*******)'. For more information about registration IDs and object types, refer to *PSF for z/OS: Customization*.

System action: If this error was encountered when processing a Resource Environment Group (REG), PSF skips over this particular data object resource and tries to process any other resources specified in the REG. If this error was encountered while processing a page or overlay object, PSF stops processing the page or overlay object. PSF tries to locate the end of the current page and resume processing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the data object resource, ensure that the registration ID is correct. If the registration ID is correct, submit the print job to a printer that supports this object type. For more information about what object types are supported by your printer, refer to your printer documentation.

System programmer response: If an IBM licensed program was used to create the structured fields for the resource with the error, verify that the input to that program was valid. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS3502I   DATA OBJECT RESOURCE TYPE (*type string***), NAME (***member***) OR OBJECT ID (***object oid***), COULD NOT BE PROCESSED. THIS OBJECT IS NOT REQUIRED FOR THIS PRINTER AND IS SKIPPED.**

Explanation: The registration ID (*object-type OID*) for the specified data object resource is not supported by the printer. The registration ID is specified in the object classification triplet on one of these structured fields:

- Include Object (IOB)
- Begin Object Container (BOC)
- Begin Resource (BRS, also called BR)
- Map Data Resource (MDR)

The printer does not support the registration ID; however, this object is not required for printing this document. PSF records this condition and continues. It is likely that the print file was formatted for a color printer that supports color profiles but is being printed on a printer that does not support these color profile objects. Any message inserts (enclosed in parenthesis)

in this message that are not available or that do not apply to this instance of this message are specified as '(*******)'.

System action: PSF records this condition and then continues processing.

User response: If the printed output is not acceptable, choose a printer that supports the color profiles that are specified in this print file, or re-format this print file for the printer on which this print file is being printed.

System programmer response: Verify that the formatting options at the time the print file was produced are compatible with the printer on which this print file is printing. Correct any mismatches.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS3503I   DATA OBJECT RESOURCE TYPE (*type string***), NAME (***member***) OR OBJECT ID (***object oid***), WAS REPLACED BY DATA OBJECT RESOURCE NAME (***member***) OR OBJECT ID (***object oid***), (***optional user text***).**

Explanation: The resource exit requested substitution of this data object resource. The specific type of data object resource is identified in this message. This message also contains the original data object resource name or object ID and the new data object. Any message inserts (enclosed in parenthesis) in this message that are not available or that do not apply to this instance of this message are specified as '(*******)'.

System action: PSF replaces the original data object resource references (*name* or *object ID*) with the new data object resource references (*name* or *object ID*) specified by the resource exit. PSF then generates this informational message unless directed otherwise by the resource exit.

User response: If the printed output is not acceptable, contact your system programmer.

System programmer response: You can use the optional user text field of this message to provide further information to the user about why this data object resource was replaced. For more information about providing optional user text in this message, refer to *PSF for z/OS: Customization*.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

**APS3504I   THIS RESOURCE SUBSTITUTION
REQUEST IS NOT ALLOWED. NAME
(*member*) OR OBJECT ID (*object OID*)
WAS NOT REPLACED BY NAME
(*member*) OR OBJECT ID (*object OID*).**

Explanation: The resource exit requested substitution
of this data object resource. This substitution was
denied because the identification of the new data object
resource (*name* or *object ID*) was not of the same
identification type (*name* or *object ID*) as the original
data object resource. The specific type of data object
resource is identified in this message. This message
also contains the original data object resource name or
object ID and the new data object resource name or
object ID. Any message inserts (enclosed in
parenthesis) in this message that are not available or
that do not apply to this instance of this message are
specified as '(***)'.

System action: PSF ignores the new data object
resource name or object ID and uses the original data
object resource name or object ID. PSF then generates
this warning message and continues processing.

User response: If the printed output is not acceptable,
contact your system programmer.

System programmer response: To specify a new
data object resource as a substitute for the original data
object resource, the resource identification type must be
identical. For example, if the original data object
resource was identified with a name, the new data
object resource must also be identified with a name and
the object ID specifications must remain unchanged. For
more information about resource substitution, refer to
PSF for z/OS: Customization.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page, for
the message data set, or as the default resource for
user print data sets in the PSF startup procedure.
Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

**APS3505I   DATA OBJECT RESOURCE TYPE (*type
string*), OBJECT ID (*object id*), IS
SPECIFIED IN AN IOB STRUCTURED
FIELD WITH THE ASN.1 OID FORMAT.
PSF DOES NOT SUPPORT THIS
FORMAT FOR SOFT DATA OBJECT
RESOURCES.**

Explanation: The data object resource referenced by
the IOB is soft, meaning that it was not treated as a
hard resource managed by PSF. Hard resources are
sent to the printer prior to the page. PSF does not
support IOB references with the ASN.1 OID format for
soft data object resources.

System action: The printer you were using might try
to print the page in error. The entire page might not be
printed. If the page in error contains any positioning
errors, print-error markers might be included on the
printed page. PSF continues processing the current
data set with the page following the page in error,
unless the printer reports another error that requires a
more severe PSF recovery action.

User response: If you created the structured fields for
the IOB, change the IOB to reference the data object
resource by name. Refer to *Mixed Object Document
Content Architecture Reference* for more information
about the IOB structured field.

System programmer response: If an IBM licensed
program was used to create the structured fields, verify
that the input to that program was valid and the correct
printer is being used. If the input was valid, change the
IOB to reference the data object resource by name.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page, for
the message data set, or as the default resource for
user print data sets in the PSF startup procedure.
Inform your system programmer.

Problem determination: Items 1, 2, 8, 19.

**APS3506I   DATA OBJECT RESOURCE TYPE (*type
string*), OBJECT ID (*object oid*), COULD
NOT BE ACTIVATED IN THE PRINTER.**

Explanation: The printer could not activate the data
object resource with object ID *object oid*. If the data
object resource type string (*type string*) in this message
is '(***)' PSF does not support the object type. Any
message inserts (enclosed in parenthesis) in this
message that are not available or that do not apply to
this instance of this message are specified as '(***)'.

System action: PSF stops printing the current data
set and issues additional messages that identify the
processing environment when the error was found.

User response: Choose a printer that can activate the
data object resource with the object ID that is specified
in the print file, correct the object ID, or reformat this
print file for the printer on which it is being printed.

System programmer response: Verify that the
formatting options when the print file is produced are
compatible with the printer that is being used. Correct
any mismatches.

Operator Response: If this message displays on the
operator's console, it indicates that the resource
containing the error is defined for a separator page, for
the message data set, or as the default resource for
user print data sets in the PSF startup procedure.
Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS3507I   DATA OBJECT RESOURCE TYPE (*type string***), OBJECT ID (***object oid***), COULD NOT BE ACTIVATED IN THE PRINTER. THIS OBJECT IS NOT REQUIRED FOR PRINTING AND IS SKIPPED.**

Explanation: The data object resource with object ID (*object oid*) could not be activated by the printer. The printer does not know of this data object resource; however, this object is not required for printing this document. PSF records this condition and continues. It is likely that the print file was formatted for a color printer that supports color profiles but is being printed on a printer that does not support these color profile objects. It is also possible that the object ID (*object oid*) was specified incorrectly. Any message inserts (enclosed in parenthesis) in this message that are not available or that do not apply to this instance of this message are specified as '(***)'.

System action: PSF records this condition and then continues processing.

User response: If the printed output is not acceptable, choose a printer that knows the object IDs that are specified in the print file, correct the object ID, or reformat this print file for the printer on which it is being printed.

System programmer response: Verify that the formatting options at the time the print file is produced are compatible with the printer on which this print file is printing. Correct any mismatches.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS3508I   RESOURCE TYPE (*type string***), NAME (***member***) OR OBJECT ID (***object oid***), SHOULD NOT BE SPECIFIED AS AN OBJECT CONTAINER RESOURCE.**

Explanation: PSF encountered an object in an object container construct that should not be an object container. One example of this is an IOCA object that has been placed in object container structured fields. The object in error was identified by name (*member*) or object ID (*object oid*). Any message inserts (enclosed in parenthesis) in this message that are not available or that do not apply to this instance of this message are specified as ''(***)'.

System action: If this error was encountered when processing a Resource Environment Group (REG), PSF skips over this particular data object resource and tries to process any other resources specified in the REG. If this error was encountered while processing a page or overlay object, PSF stops processing the page or

overlay object. PSF tries to locate the end of the current page and resume processing on the next page. If the end of the current page cannot be located, PSF stops printing the data set. PSF issues additional messages that identify the processing environment when the error was found.

User response: If you created the structured fields for the data object resource, ensure that the object type is appropriate for use as an object container or use this object type as intended. For more information about the proper usage of this object type, refer to *Mixed Object Document Content Architecture Reference*.

System programmer response: If an IBM licensed program was used to create the structured fields, verify that the input to that program was valid and the correct printer is being used. If the input was valid, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem. If the error involves separator pages or the message data set, use the information provided in the User Response section to correct the error.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS3509I   THE ABOVE CONDITION WAS ENCOUNTERED WHILE PROCESSING OBJECTS SPECIFIED IN RESOURCE ENVIRONMENT GROUP (*token name***). PROCESSING OF THE RESOURCE ENVIRONMENT GROUP CONTINUES.**

Explanation: The previous condition or error was found while processing a Resource Environment Group (REG) for this document. Errors or conditions identified during REG processing are recorded and processing continues. This message is produced to help find the noted condition. The message insert (*token name*) identifies the REG being processed when the condition was encountered. If the REG does not have a token name, the message insert appears as '(***)'.

System action: PSF records the environment at the time the primary condition was encountered and continues processing.

User response: See the User Response for the primary message in this message set.

System programmer response: See the System Programmer Response for the primary message in this message set.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for

user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 2, 17, 27.

APS3510I THE ABOVE CONDITION OCCURRED IN THE RESOURCE ENVIRONMENT GROUP JUST PRIOR TO PAGE (*page number***) OF TRANSMISSION (***transmission number***).**

Explanation: The previous condition or error was found while processing a Resource Environment Group (REG) for this document. Errors or conditions identified during REG processing are recorded and processing continues. This message is produced to help find the noted condition. The condition occurred just prior to processing the page and transmission identified in this message.

System action: PSF records the environment at the time the primary condition was encountered and continues processing.

User response: See the User Response for the primary message in this message set.

System programmer response: See the System Programmer Response for the primary message in this message set.

Operator Response: If this message displays on the operator's console, it indicates that the resource containing the error is defined for a separator page, for the message data set, or as the default resource for user print data sets in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 1, 4, 9, 17, 19.

APS3513I AN ATTEMPT WAS MADE TO ACTIVATE A PRINTER-RESIDENT CODE PAGE USING CPGID ***cpgid* AND GCSGID ***gcsgid***. THE ATTEMPT WAS NOT SUCCESSFUL.**

Explanation: PSF received a request for a TrueType or OpenType font that asked that a code page be used to transform the print data. The code page was identified by a CPGID of *cpgid* and a GCSGID of *gcsgid*. However, the code page is not printer resident so PSF could not complete the activation.

A TrueType or OpenType font is introduced in the print data set using an MDR structured field. The MDR was generated by the print application, PPFA, or some data stream formatter. The MDR for this TrueType or OpenType font specified a code page (by CPGID and GCSGID) to be used by the printer to transform the data encoding to Unicode. The CPGID and GCSGID are identifiers used by PSF and the printer to communicate about a specific code page. In this case, the printer did not know the identified code page.

The CPGID or GCSGID might be incorrect. Since PSF

was only given the CPGID and GCSGID for the code page, PSF can only attempt to activate the code page. When the code page activation fails for a code page identified by CPGID and GCSGID, PSF must return this error.

System action: PSF was unable to process the necessary resources to print this page. PSF prints this error message and associated environment messages.

The action taken by PSF depends on where in the data stream the font was specified. In the associated environment message produced for this error, PSF identifies the location of the error within the data stream as well as the disposition of the error.

User response: Do one of these to solve this problem:
- Verify that the CPGID and GCSGID used to identify this code page are correct.
- Specify the code page by name instead of by CPGID and GCSGID. This gives PSF a way to download the code page to the printer.

System programmer response: If the error involves separator pages or message pages, use the information provided in the User Response section to correct the error. If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was correct. If the input was correct, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates an error in the specification of a code page to be used with a TrueType or OpenType font for printing the separator pages, message pages, or a default resource specified with the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 8, 17, 18, 19.

APS3514I PSF CANNOT PROCESS THE TRUETYPE FONT, OPENTYPE FONT, OR COLOR MANAGEMENT RESOURCE (*resource name***). PSF MUST BE UNICODE-ENABLED TO SUPPORT THIS RESOURCE.**

Explanation: A TrueType or OpenType font or a color management resource was specified in the data stream with a name of *resource name*. However, PSF is not enabled for Unicode processing and cannot process this resource request. When Unicode-enabled, PSF can establish special C code interfaces, UNIX System Services, and Unicode interfaces that it does not normally have active.

System action: PSF was unable to process the necessary resources to print this page. PSF prints this error message and associated environment messages.

The action taken by PSF depends on where in the data

stream the resource was specified. In the associated environment message produced for this error, PSF identifies the location of the error within the data stream as well as the disposition of the error.

User response: Contact your system programmer. Request that your system programmer enable PSF for Unicode support or use a PSF and printer combination that is Unicode-enabled.

System programmer response: Either direct the print data set causing this error to a Unicode-enabled PSF or enable Unicode on this PSF by using the PARM parameter on the JCL EXEC statement of the PSF startup procedure. The syntax is:

```
//nnn    EXEC PGM=APSPPIEP,PARM=(,,,,,UNICODE)
```

For more information about the PARM parameter refer to *PSF for z/OS: Customization*.

Operator Response: If this message displays on the operator's console, it indicates that PSF is processing a resource request for separator pages, message pages, or a default resource specified in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

| **APS3515I** | **PSF CANNOT PROCESS THE DATA OBJECT OR OCA OBJECT RESOURCE (***resource name***) WITH A NAME LONGER THAN 8 CHARACTERS WHEN PSF IS NOT UNICODE-ENABLED. PSF WILL TRUNCATE THE NAME TO 8 CHARACTERS AND ATTEMPT TO PROCESS THIS RESOURCE.** |

Explanation: A data object or OCA object resource was specified in the data stream with a *resource name* that is longer than eight characters. However, because PSF was not enabled for Unicode processing, the maximum length allowed for a resource name is eight characters.

System action: PSF truncates the resource name to eight characters and tries to continue processing the resource.

User response: If this print data set was not successfully processed by PSF, contact your system programmer. Request that your system programmer enable PSF for Unicode support or use a PSF and printer combination that is Unicode-enabled.

System programmer response: If this print data set was not successfully processed by PSF, either direct the print data set causing this error to a Unicode-enabled PSF or enable Unicode on this PSF by using the PARM parameter on the JCL EXEC statement of the PSF startup procedure. The syntax is:

```
//nnn    EXEC PGM=APSPPIEP,PARM=(,,,,,UNICODE)
```

For more information about the PARM parameter refer to *PSF for z/OS: Customization*.

Operator Response: If this message displays on the operator's console, it indicates that PSF is processing a resource request for separator pages, message pages, or a default resource specified in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

| **APS3516I** | **PSF CANNOT PROCESS THE DATA OBJECT OR OCA OBJECT RESOURCE (***resource name***), GCSGID (***gcsgid***), CPGID (***cpgid***). PSF MUST BE UNICODE-ENABLED TO SUPPORT THIS RESOURCE.** |

Explanation: A data object or OCA object resource with a hexadecimal *resource name* was specified in the data stream with a name encoding of *gcsgid* and *cpgid*. However, PSF is not enabled for Unicode processing and cannot process this resource request. When Unicode-enabled, PSF can establish special C code interfaces, UNIX System Services, and Unicode interfaces that it does not normally have active.

System action: PSF was unable to process the necessary resources to print this page. PSF prints this error message and associated environment messages.

The action taken by PSF depends on where in the data stream the resource was specified. In the associated environment messages produced for this error, PSF identifies the location of the error within the data stream as well as the disposition of the error.

User response: Contact your system programmer. Request that your system programmer enable PSF for Unicode support or use a PSF and printer combination that is Unicode-enabled.

System programmer response: Either direct the print data set causing this error to a Unicode-enabled PSF or enable Unicode on this PSF by using the PARM parameter on the JCL EXEC statement of the PSF startup procedure. The syntax is:

```
//nnn    EXEC PGM=APSPPIEP,PARM=(,,,,,UNICODE)
```

For more information about the PARM parameter refer to *PSF for z/OS: Customization*.

Operator Response: If this message displays on the operator's console, it indicates that PSF is processing a resource request for separator pages, message pages, or a default resource specified in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

**APS3517I PSF CANNOT PROCESS THE
TRUETYPE FONT, OPENTYPE FONT,
OR COLOR MANAGEMENT
RESOURCE (*resource name*), GCSGID
(*gcsgid*), CPGID (*cpgid*). PSF MUST BE
UNICODE-ENABLED TO SUPPORT
THIS RESOURCE.**

Explanation: A TrueType or OpenType font or a color
management resource with a hexadecimal *resource
name* was specified in the data stream with a name
encoding of *gcsgid* and *cpgid*. However, PSF is not
enabled for Unicode processing and cannot process this
resource request. When Unicode-enabled, PSF can
establish special C code interfaces, UNIX System
Services, and Unicode interfaces that it does not
normally have active.

System action: PSF was unable to process the
necessary resources to print this page. PSF prints this
error message and associated environment messages.

The action taken by PSF depends on where in the data
stream the resource was specified. In the associated
environment messages produced for this error, PSF
identifies the location of the error within the data stream
as well as the disposition of the error.

User response: Contact your system programmer.
Request that your system programmer enable PSF for
Unicode support or use a PSF and printer combination
that is Unicode-enabled.

System programmer response: Either direct the print
data set causing this error to a Unicode-enabled PSF or
enable Unicode on this PSF by using the PARM
parameter on the JCL EXEC statement of the PSF
startup procedure. The syntax is:

```
//nnn    EXEC PGM=APSPPIEP,PARM=(,,,,,UNICODE)
```

For more information about the PARM parameter refer
to *PSF for z/OS: Customization*.

Operator Response: If this message displays on the
operator's console, it indicates that PSF is processing a
resource request for separator pages, message pages,
or a default resource specified in the PSF startup
procedure. Inform your system programmer.

Problem determination: None.

**APS3518I PSF CANNOT PROCESS THE
TRUETYPE FONT, OPENTYPE FONT,
OR COLOR MANAGEMENT
RESOURCE (*resource name*), CCSID
(*ccsid*). PSF MUST BE
UNICODE-ENABLED TO SUPPORT
THIS RESOURCE.**

Explanation: A TrueType or OpenType font or a color
management resource with a hexadecimal *resource
name* was specified in the data stream with a name
encoding of *ccsid*. However, PSF is not enabled for

Unicode processing and cannot process this resource
request. When Unicode-enabled, PSF can establish
special C code interfaces, UNIX System Services, and
Unicode interfaces that it does not normally have active.

System action: PSF was unable to process the
necessary resources to print this page. PSF prints this
error message and associated environment messages.

The action taken by PSF depends on where in the data
stream the resource was specified. In the associated
environment messages produced for this error, PSF
identifies the location of the error within the data stream
as well as the disposition of the error.

User response: Contact your system programmer.
Request that your system programmer enable PSF for
Unicode support or use a PSF and printer combination
that is Unicode-enabled.

System programmer response: Either direct the print
data set causing this error to a Unicode-enabled PSF or
enable Unicode on this PSF by using the PARM
parameter on the JCL EXEC statement of the PSF
startup procedure. The syntax is:

```
//nnn    EXEC PGM=APSPPIEP,PARM=(,,,,,UNICODE)
```

For more information about the PARM parameter refer
to *PSF for z/OS: Customization*.

Operator Response: If this message displays on the
operator's console, it indicates that PSF is processing a
resource request for separator pages, message pages,
or a default resource specified in the PSF startup
procedure. Inform your system programmer.

Problem determination: None.

**APS3519I PSF CANNOT PROCESS THE DATA
OBJECT OR OCA OBJECT RESOURCE
(*resource name*), CCSID (*ccsid*). PSF
MUST BE UNICODE-ENABLED TO
SUPPORT THIS RESOURCE.**

Explanation: A data object or OCA object resource
with a hexadecimal *resource name* was specified in the
data stream with a name encoding of *ccsid*. However,
PSF is not enabled for Unicode processing and cannot
process this resource request. When Unicode-enabled,
PSF can establish special C code interfaces, UNIX
System Services, and Unicode interfaces that it does
not normally have active.

System action: PSF was unable to process the
necessary resources to print this page. PSF prints this
error message and associated environment messages.

The action taken by PSF depends on where in the data
stream the resource was specified. In the associated
environment messages produced for this error, PSF
identifies the location of the error within the data stream
as well as the disposition of the error.

User response: Contact your system programmer.
Request that your system programmer enable PSF for

| Unicode support or use a PSF and printer combination
| that is Unicode-enabled.

| **System programmer response:** Either direct the print
| data set causing this error to a Unicode-enabled PSF or
| enable Unicode on this PSF by using the PARM
| parameter on the JCL EXEC statement of the PSF
| startup procedure. The syntax is:

| ```
| //nnn   EXEC PGM=APSPPIEP,PARM=(,,,,,UNICODE)
| ```

For more information about the PARM parameter refer
to *PSF for z/OS: Customization*.

Operator Response: If this message displays on the
operator's console, it indicates that PSF is processing a
| resource request for separator pages, message pages,
or a default resource specified in the PSF startup
procedure. Inform your system programmer.

| **Problem determination:** None.

APS3520I   **A RESOURCE HAS BEEN FOUND
THAT CANNOT BE PLACED INLINE IN
THE RESOURCE GROUP: PATH (***path***),
FILENAME(***filename***).**

Explanation: AFP Download Plus received a request
to process a resource that cannot be placed inline.
Some resources, for example, TrueType and OpenType
Fonts, have a setting that indicates whether embedding
is allowed. If this setting forbids embedding, AFP
Download Plus cannot place the resource inline.

System action: AFP Download Plus cannot process
the necessary resources to print this page. AFP
Download Plus issues this error message and
associated environment messages. The action taken
depends on where in the data stream the data object
resource was specified. The associated environment
messages for this error identify the location of the error
within the data stream as well as the disposition of the
error.

User response: Use only resources that can be
embedded.

System programmer response: Use only resources
that can be embedded in separator pages and message
pages and as default resources specified in the AFP
Download Plus startup procedure.

Operator Response: If this message displays on the
operator's console, it indicates that AFP Download Plus
is processing a resource request for separator pages,
message pages, or a default resource specified in the
AFP Download Plus startup procedure. Inform your
system programmer.

Problem determination: Items 2, 8, 17, 18, 19.

APS4000I   **THE AFP STATISTICS REPORT
FACILITY IN PSF HAS ENCOUNTERED
A MEMORY SHORTAGE AND HAS
SHUT DOWN. MEMORY WAS NOT
AVAILABLE FOR (***memory item***). ALL
OTHER PSF PROCESSING
CONTINUES.**

Explanation: While processing an AFP Statistics
(AFPSTATS) report for this print data set, a shortage of
virtual memory occurred that caused the AFPSTATS
processing to end. The specific error is described by
memory item in the message.

memory item can be any of these:

- PRINT FILE INFORMATION SECTION, TITLE
  RECORD
- PRINT FILE INFORMATION SECTION,
  PAGEFOOTER RECORD
- PRINT FILE INFORMATION SECTION, HEADING
  RECORD
- PRINT FILE INFORMATION SECTION, PRINTFILE
  RECORD
- PRINT FILE INFORMATION SECTION, COMMENT
  RECORD
- PROCESSING DETAIL SECTION, TITLE RECORD
- PROCESSING DETAIL SECTION, PAGEFOOTER
  RECORD
- PROCESSING DETAIL SECTION, HEADING
  RECORD
- PROCESSING DETAIL SECTION, RESOURCE
  RECORD
- PROCESSING DETAIL SECTION, EVENT RECORD
- PROCESSING DETAIL SECTION, NOTE RECORD
- PROCESSING DETAIL SECTION, COMMENT
  RECORD
- RESOURCE SUMMARY BY NAME SECTION, TITLE
  RECORD
- RESOURCE SUMMARY BY NAME SECTION,
  PAGEFOOTER RECORD
- RESOURCE SUMMARY BY NAME SECTION,
  HEADING RECORD
- RESOURCE SUMMARY BY NAME SECTION,
  SUMM-NAME RECORD
- RESOURCE SUMMARY BY NAME SECTION,
  COMMENT RECORD
- RESOURCE SUMMARY BY NAME SECTION, NOTE
  RECORD
- RESOURCE SUMMARY BY DATA SET SECTION,
  TITLE RECORD
- RESOURCE SUMMARY BY DATA SET SECTION,
  PAGEFOOTER RECORD
- RESOURCE SUMMARY BY DATA SET SECTION,
  SECTION RECORD
- RESOURCE SUMMARY BY DATA SET SECTION,
  SUMM-DSN RECORD

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- RESOURCE SUMMARY BY DATA SET SECTION, SUMM-DSN-R RECORD
- RESOURCE SUMMARY BY DATA SET SECTION, COMMENT RECORD
- RESOURCE SUMMARY BY DATA SET SECTION, NOTE RECORD
- RESOURCE SUMMARY BY RESOURCE TYPE SECTION, TITLE RECORD
- RESOURCE SUMMARY BY RESOURCE TYPE SECTION, PAGEFOOTER RECORD
- RESOURCE SUMMARY BY RESOURCE TYPE SECTION, SECTION RECORD
- RESOURCE SUMMARY BY RESOURCE TYPE SECTION, HEADING RECORD
- RESOURCE SUMMARY BY RESOURCE TYPE SECTION, SUMM-REF RECORD
- RESOURCE SUMMARY BY RESOURCE TYPE SECTION, SUMM-LOC RECORD
- RESOURCE SUMMARY BY RESOURCE TYPE SECTION, SUMM-DISP RECORD
- RESOURCE SUMMARY BY RESOURCE TYPE SECTION, COMMENT RECORD
- RESOURCE SUMMARY BY RESOURCE TYPE SECTION, NOTE RECORD
- PROCESSING SUMMARY SECTION, TITLE RECORD
- PROCESSING SUMMARY SECTION, PAGEFOOTER RECORD
- PROCESSING SUMMARY SECTION, SECTION RECORD
- PROCESSING SUMMARY SECTION, HEADING RECORD
- PROCESSING SUMMARY SECTION, SUMM-PAGE RECORD
- PROCESSING SUMMARY SECTION, SUMM-EVENT RECORD
- PROCESSING SUMMARY SECTION, EVENT-LIST RECORD
- PROCESSING SUMMARY SECTION, COMMENT RECORD
- PROCESSING SUMMARY SECTION, NOTE RECORD
- INTERNAL CONTROL STRUCTURE, DATA SET LIST ITEM
- INTERNAL CONTROL STRUCTURE, RESOURCE LIST ITEM
- INTERNAL CONTROL STRUCTURE, EVENT LIST ITEM
- INTERNAL CONTROL STRUCTURE, RESOURCE NAME LIST ITEM
- INTERNAL CONTROL STRUCTURE, PROCESSING SUMMARY ANCHOR
- INTERNAL CONTROL STRUCTURE, DATA SET NAME ANCHOR
- INTERNAL CONTROL STRUCTURE, RESOURCE TYPE ANCHOR
- INTERNAL CONTROL STRUCTURE, RESOURCE NAME ANCHOR

System action: The processing for the AFP Statistics facility is ended and PSF continues processing the print file.

User response: Inform your system programmer that this error occurred.

System programmer response: There is not enough virtual memory for PSF to process the print file and produce an AFP Statistics report at the same time. Increase the amount of virtual memory specified on the REGION parameter of the PSF startup procedure.

Operator Response: If this message displays on the operator's console, inform your system programmer. AFP Statistics are not gathered while processing separator pages or the PSF message data set.

Problem determination: Items 1, 2, 3, 8,11, 14, 15, 17, 19.

APS4001I   THE AFP STATISTICS REPORT FOR THIS PRINT FILE WAS WRITTEN TO — *data set name(member name)***.**

Explanation: When an AFP Statistics (AFPSTATS) report is requested, this informational message is produced to tell the requester where the report was placed. PSF gives the report a member name and writes it to the PDSE specified in the PSF startup procedure.

data set name
> Specifies the name of the PDSE where PSF writes the AFPSTATS report. This data set is defined in the PSF startup procedure by the AFPSTATS DD statement.

member name
> The name PSF gave the report when it was placed in the PDSE named *data set name*. This report can be viewed or printed. For information about printing the AFPSTATS report, refer to *PSF for z/OS: User's Guide*.

System action: This message is placed in the message data set for the print data set when an AFPSTATS report has been requested. PSF processing continues.

User response: Use the data set name and member name from this message to locate the requested AFPSTATS report for viewing or printing.

System programmer response: No response is necessary.

Operator Response: If this message appears on the operator's console, inform your system programmer. AFP Statistics are not gathered or reported while

processing separator pages or the PSF message data set.

Problem determination: Items 1, 8.

APS4002I   THE AFP STATISTICS REPORT WAS REQUESTED BUT COULD NOT BE GENERATED BECAUSE THE AFPSTATS DD STATEMENT WAS NOT SPECIFIED ON THE PSF STARTUP PROCEDURE.

Explanation: An AFP Statistics (AFPSTATS) report was requested for this print file, but the required AFPSTATS DD statement was not specified in the PSF startup procedure.

System action: No AFPSTATS report was generated. PSF stops AFPSTATS report-related processing but continues all other processing.

User response: Inform your system programmer of this condition. The system programmer must specify the AFPSTATS DD statement in the PSF startup procedure for PSF to produce the AFPSTATS report.

System programmer response: The AFPSTATS DD statement must be specified in the PSF startup procedure for PSF to produce the AFPSTATS report. For information about how to allocate the PDSE for AFP Statistics facility refer to *PSF for z/OS: Customization*.

Operator Response: If this message appears on the operator's console, inform your system programmer. AFP Statistics are not gathered during processing of separator pages or the PSF message data set.

Problem determination: Item 8.

APS4003I   THE AFP STATISTICS REPORT FACILITY IN PSF HAS ENCOUNTERED AN AFPSTATS FILE ACCESS PROBLEM AND HAS SHUT DOWN. THE DETAILS FOR THE FILE ACCESS FAILURE ARE (*file access failure***). ALL OTHER PSF PROCESSING CONTINUES.**

Explanation: While processing an AFP Statistics (AFPSTATS) report for this print data set, an error occurred accessing the PDSE where PSF is trying to place the AFPSTATS report. This caused AFPSTATS report processing to be ended. The specific error is described by *file access failure*.

file access failure can be any of these:
- OPEN FAILURE, AFPSTATS DD STATEMENT
- CREATING MEMBER, *member_name*
- NO UNIQUE MEMBER
- WRITE FAILURE, PRINT FILE INFORMATION SECTION
- WRITE FAILURE, PROCESSING DETAIL SECTION — FRONT MATTER

- WRITE FAILURE, PROCESSING DETAIL SECTION — RESOURCE RECORD
- WRITE FAILURE, PROCESSING DETAIL SECTION — EVENT RECORD
- WRITE FAILURE, PROCESSING DETAIL SECTION — BACK MATTER
- WRITE FAILURE, RESOURCE SUMMARY BY NAME SECTION
- WRITE FAILURE, RESOURCE SUMMARY BY DATA SET SECTION
- WRITE FAILURE, RESOURCE SUMMARY BY RESOURCE TYPE SECTION
- WRITE FAILURE, PROCESSING SUMMARY SECTION

System action: The processing for the AFPSTATS report is stopped and PSF continues processing the print file.

User response: Inform your system programmer that this error occurred.

System programmer response: There is an error in the way the AFPSTATS DD statement was specified or in the PDSE specified by the AFPSTATS DD statement. This message could be the result of an error in the AFPSTATS repository. The error could be caused by one of these:

1. The AFPSTATS repository is full.
2. The volume that contains the AFPSTATS repository is full.
3. There is an I/O error on the volume containing the AFPSTATS repository.

In order to keep PSF running in the event of an error in the AFPSTATS data set, PSF traps the data set error, produces this message, ends any further AFPSTATS processing, and continues to process the print file.

Correct the AFPSTATS DD statement or the PDSE error and try again. Refer to *PSF for z/OS: Customization* for information about allocating this PDSE.

Operator Response: If this message displays on the operator's console, inform your system programmer. AFP Statistics are not gathered while processing separator pages or the PSF message data set.

Problem determination: Items 1, 2, 3, 8,11, 14, 15, 17, 19.

APS4004I   THE AFP STATISTICS REPORT FACILITY IN PSF HAS ENCOUNTERED AN INTERNAL LOGIC ERROR AND HAS SHUT DOWN. THE SPECIFIC ERROR WAS (*logic error***). ALL OTHER PSF PROCESSING CONTINUES.**

Explanation: While processing an AFP Statistics (AFPSTATS) report for this print data set, an internal logic error occurred that caused the AFPSTATS

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processing to be ended. The specific error is described by *logic error*.

logic error can be any of these:
- PARAMETERS NOT VALID, APSGARSR
- PARAMETERS NOT VALID, APSGAEVR
- PARAMETERS NOT VALID, APSGARES
- PARAMETERS NOT VALID, APSGATRM
- PARAMETERS NOT VALID, APSGARLD
- PARAMETERS NOT VALID, APSRAUST
- PARAMETERS NOT VALID, APSRASFT
- PARAMETERS NOT VALID, APSGAMEX
- PARAMETERS NOT VALID, APSGAMLD
- PARAMETERS NOT VALID, APSGAINC
- PARAMETERS NOT VALID, APSGADEX
- PARAMETERS NOT VALID, APSGAJCL
- PARAMETERS NOT VALID, APSGAACT
- PARAMETERS NOT VALID, APSGAFEX
- PARAMETERS NOT VALID, APSGAFRF
- INTERFACE ERROR, APSGAPFR
- INTERFACE ERROR, APSGARSR
- INTERFACE ERROR, APSGAEVR
- INTERFACE ERROR, APSGASNM
- INTERFACE ERROR, APSGASRT
- INTERFACE ERROR, APSGASPR
- INTERFACE ERROR, APSGAEND

System action: The processing for the AFP Statistics facility is stopped and PSF continues processing the print file.

User response: Inform your system programmer that this error occurred.

System programmer response: This is most likely an internal PSF error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

Operator Response: If this message displays on the operator's console, inform your system programmer. AFP Statistics are not gathered while processing separator pages or the PSF message data set.

Problem determination: Items 1, 2, 3, 8,11, 14, 15, 17, 19.

APS4400I   **UNICODE CONVERSION FAILURE: FACILITY RETURNED WITH RETURN CODE=**return code **AND REASON CODE=**reason code**. CONVERTING STRING FROM INPUT ENCODING=**from ccsid **TO OUTPUT ENCODING=**to ccsid**.**

Explanation: PSF encountered an error using the ZCONV Unicode data transform facility. PSF might have to change the Unicode encoding for resource names.

This is necessary because various system facilities might require the name to be in a different Unicode encoding. For example, a TrueType font name might have been specified in Unicode encoding UTF-16 (CCSID=1200) but PSF might be printing a message that wants to give the font name in EBCDIC (CCSID=500). In this case, PSF would have to change the encoding of the font name. For a list of return and reason codes, refer to *z/OS Support for Unicode: Using Unicode Services*.

System action: PSF was unable to process the necessary resources to print this page. PSF prints this error message and associated environment messages.

The action taken by PSF depends on where in the data stream the data object resource was specified. In the associated environment messages produced for this error, PSF identifies the location of the error within the data stream as well as the disposition of the error.

User response: This problem is generally caused by one of these:
- The Unicode encoding of the font name was not correct. Either the *to ccsid*, the GCSGID and CPGID equivalent of the *to ccsid*, or the *from ccsid* were not specified correctly in the Map Data Resource (MDR) structured field.
- The font name was not encoded as indicated in the *to ccsid* or GCSGID and CPGID of the MDR. There was a mismatch between the actual name encoding and the specification of the name encoding.
- The z/OS system was not properly prepared to handle this particular name encoding transform. A transform from *from ccsid* to *to ccsid* is not currently enabled on the system. Contact your system programmer for assistance in correcting this condition.

System programmer response: Make sure the z/OS system is properly enabled for Unicode data transforms and that the proper transforms, both to and from, have been initialized. Refer to *PSF for z/OS: Customization* for more information about setting up the ZCONV facility.

If the error involves separator pages or message pages, use the information provided in the User Response section to correct the error. If an IBM licensed program was used to create the structured fields for the print data set with the error, verify that the input to that program was correct. If the input was correct, refer to *PSF for z/OS: Diagnosis* for assistance in determining the source of the problem.

Operator Response: If this message displays on the operator's console, it indicates that PSF is processing a TrueType or OpenType font request for separator pages, message pages, or a default resource specified in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 8, 17, 18, 19.

APS4401I   CDRA CONVERSION FAILURE: FACILITY RETURNED WITH RETURN CODE = *return code*.

Explanation: When using Character Data Representation Architecture (CDRA) services to convert a resource name, PSF must convert a graphic character set global identifier (GCSGID) and code page global identifier (CPGID) encoding pair into a coded character set identifier (CCSID). However, the conversion to a CCSID failed. The possible return codes from the system's conversion services are:

X'00060001'—The CCSID resource repository was not found.

X'00060002'—The CCSID resource repository is currently unavailable.

X'00070001'—The system CCSID resource repository accessed by the function was found not to be valid in structure.

All other return codes—logic error.

System action: PSF produces this error message and then produces an abend with an abend code 024 and abend reason code 0E51.

User response: Inform your system programmer.

System programmer response: If this is deemed a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Operator Response: If this message displays on the operator's console, it indicates that PSF is processing separator pages, message pages, or a default resource specified in the PSF startup procedure. Inform your system programmer.

Problem determination: Items 2, 8, 9, 17, 19.

APS4402I   REQUESTED TRANSFORM OF INPUT DATA FROM GCSGID(*gcsgid***)-CPGID(***cpgid***) TO CCSID(***ccsid***) CANNOT BE PERFORMED BECAUSE PSF IS NOT UNICODE ENABLED. THE SYSTEM PROGRAMMER CAN ENABLE UNICODE SUPPORT FOR PSF USING THE 'PARM=' FIELD IN THE PSF STARTUP PROCEDURE.**

Explanation: PSF received a request to process a TrueType or OpenType font, data object resource, or color management resource with a Unicode name encoding GCSGID of *gcsgid*, and CPGID of *cpgid*. PSF needs to transform this name to a Unicode encoding of *ccsid*. However, PSF was not enabled for Unicode processing. PSF cannot process this request unless PSF is Unicode-enabled.

System action: PSF was unable to process the necessary resources to print this page. PSF prints this error message and associated environment messages.

The action taken by PSF depends on where in the data stream the data object was specified. In the associated environment message produced for this error, PSF identifies the location of the error within the data stream as well as the disposition of the error.

User response: Contact your system programmer. Request that your system programmer enable PSF Unicode support or use a PSF and printer combination that is Unicode-enabled.

System programmer response: Either direct the print data set causing this error to a PSF that is Unicode-enabled or enable Unicode on this PSF. To enable Unicode support in PSF, use the PARM parameter on the JCL EXEC statement of the PSF startup procedure or the Unicode enabled parameter in the Printer Inventory. Enabling Unicode tells PSF to establish special C code interfaces and Unicode interfaces that PSF does not normally have active.

Operator Response: If this message displays on the operator's console, it indicates that PSF is processing separator pages, message pages, or a default resource specified in the PSF startup procedure that require TrueType and OpenType fonts, data object resources, or color management resources, but PSF has not been Unicode-enabled. Inform your system programmer.

Problem determination: None.

APS4403I   THE REQUESTED TRANSFORM OF INPUT DATA FROM CCSID(*ccsid***) TO CCSID(***ccsid***) CANNOT BE PERFORMED BECAUSE PSF IS NOT UNICODE ENABLED. THE SYSTEM PROGRAMMER CAN ENABLE UNICODE SUPPORT FOR PSF USING THE 'PARM=' FIELD IN THE PSF STARTUP PROCEDURE.**

Explanation: PSF must convert input data to the specified encoding in order to continue processing, but cannot do so because it is not enabled for Unicode processing.

If the output CCSID is 1200 or 500, the input data is a TrueType or OpenType font, data object resource, or color management resource name. If the output CCSID is anything else, mixed single-byte or double-byte EBCDIC data is being converted to mixed single-byte or double-byte ASCII data for a QR Code bar code.

System action: PSF is unable to continue processing this page. PSF prints this error message and associated environment messages.

The action taken by PSF depends on where in the data stream the conversion error occurred. In the associated environment message, PSF identifies the location of the error within the data stream as well as the disposition of the error.

User response: Contact your system programmer. Request that your system programmer enable PSF

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Unicode support or use a PSF and printer combination that is Unicode-enabled.

System programmer response: Either direct the print data set causing this error to a PSF that is Unicode-enabled or enable Unicode on this PSF. To enable Unicode support in PSF, use the PARM parameter on the JCL EXEC statement of the PSF startup procedure or the Unicode enabled parameter in the Printer Inventory. Enabling Unicode tells PSF to establish special C code interfaces and Unicode interfaces that PSF does not normally have active.

Operator Response: If this message displays on the operator's console, it indicates that PSF is processing separator pages, message pages, or a default resource specified in the PSF startup procedure. Inform your system programmer.

Problem determination: None.

APS4500I   DYNAMIC ALLOCATION FAILED FOR TRACE DATASET *dsname*, **RETURN CODE** *retcode*, **REASON CODE** *reason code*.

Explanation: PSF tried to allocate the requested trace data set, but received the error indicated. One possible cause for this message is that the PSF trace data set did not exist before the PSF FSA was started. Another possible cause is that the data set was not cataloged.

dsname is the PSF trace data set name specified in the Printer Inventory fsa-trace-dsname parameter. *retcode* and *reason code* are the values returned to PSF from the system dynamic allocation function and might help diagnose this problem.

System action: PSF initialization continues with no external tracing.

User response: No response is necessary.

System programmer response: Correct the error and restart PSF. For more information on tracing, refer to *PSF for z/OS: Diagnosis*.

Operator Response: No response is necessary.

Problem determination: None.

APS4501I   TRACING TO (*ddname* I *dsname***) HAS STARTED.**

Explanation: This message indicates that the output trace for PSF has started. If you are tracing the FSA, *dsname* matches the name of the CNTL statement. If the Printer Inventory is being used for this FSS, the dsname was specified in the inventory. Otherwise, the ddname was specified in the PSF startup procedure.

System action: Processing of the data set continues.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 15, 19.

APS4502I   TRACING TO (*ddname* I *dsname***) HAS STOPPED.**

Explanation: This message indicates that the output trace for PSF has stopped. If you are tracing the FSA, *dsname* matches the name of the CNTL statement. If the Printer Inventory is being used for this FSS, the dsname was specified in the inventory. Otherwise, the ddname was specified in the PSF startup procedure.

System action: Processing of the data set continues.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 1, 2, 15, 19.

APS6500I   UNEXPECTED SESSION ENDING RESPONSE RECEIVED FROM THE PRINTER.

Explanation: An unexpected response was received from the printer that ended the TCP/IP session prematurely.

System action: If a data set was being printed at the time the session ended, the data set might be restarted from the most recent checkpoint before the session was ended or might be restarted from the beginning if no checkpoints had been reached.

One of these occurs, depending on when the failure occurred, and what type of failure it was.

- If connecting to the printer and FAILURE=WCONNECT is specified on the PRINTDEV statement or Failure action = Wait for connect is specified in the Printer Inventory, PSF issues message APS935I and tries to connect again until the connect interval timer (CONNINTV on the PRINTDEV statement or Connect interval in the Printer Inventory) expires.
- If connecting to the printer and FAILURE=STOP in the Printer Inventory, PSF stops the FSA and issues APS934I.
- If attempting to send data and FAILURE=STOP is specified on the PRINTDEV statement or Failure action = stop is specified in the Printer Inventory, PSF stops the FSA and issues APS934I.
- If attempting to send data and FAILURE=WCONNECT is specified on the PRINTDEV statement or Failure action = Wait for connect is specified in the Printer Inventory, PSF

issues messages APS932I and APS6501I and attempts to reestablish the connection.

User response: Examine your output for duplicate pages.

System programmer response: This indicates a possible logic error in the microcode of the printer or another problem with the printer. Contact your hardware service provider or the person responsible for the printer for assistance.

Operator Response: No response is necessary.

Problem determination: Items 1, 18.

APS6501A and APS6501I

AN UNEXPECTED COMMUNICATION FAILURE OCCURRED. PRINTING WILL BE RESTARTED AT A PREVIOUS CHECKPOINT, AND PAGES MIGHT BE DUPLICATED. ERRNO = *errno***.**

Explanation: PSF detected a communication failure with the printer; for example, the session was lost during page processing. Printing is restarted at the most recent checkpoint or the beginning of the data set; therefore, some pages might be reprinted. PSF could issue this message when TCP/IP is recycled. This message appears on the operator console.

ERRNO = *errno* indicates the TCP/IP error. To interpret the ERRNO, refer to *z/OS Communications Server: IP and SNA Codes*.

Common ERRNOs associated with this message are:

0 This indicates that the partner has closed its end of the socket connection. Determine why the remote partner has closed the connection. This might involve a microcode trace at the printer.

System action: The data set being printed at the time of the error is restarted from the most recent checkpoint before the interrupt. If no checkpoints have been reached, the data set is reprinted from the beginning.

User response: Examine your output for duplicate pages.

System programmer response: No response is necessary

Operator Response: To determine an appropriate response, see the specific error conditions described in any accompanying console messages.

Message APS6501A: The message must be removed manually from the operator console.

Problem determination: Items 1, 18.

APS6502I   PERMANENT HARDWARE ERROR DETECTED ON PRINTER *prtnnn***. PAPER SIZE FOR INPUT BIN** *nn* **IS NOT VALID. PSF INITIALIZATION IS TERMINATED**

Explanation: The Obtain Printer Characteristics response returned by the printer showed the physical paper width, physical paper length, logical page width, or the logical page length for the input bin is zero. For each input bin being used, PSF requires a valid physical paper size and logical page size.

System action: PSF processing ends abnormally by issuing abend 024 and abend reason code 0242. PSF does not take a SVC dump for this abend.

User response: No response is necessary.

System programmer response: This indicates a logic error in the printer microcode. Contact your hardware service representative. This is not a PSF logic error. If a SVC dump is required, follow the procedure described in the *PSF for z/OS: Diagnosis* for generating a SVC dump.

Operator Response: Notify your system programmer that this error occurred.

Problem determination: Items 1, 9,18.

APS6503I   PRINTER *prtnnn* **RETURNED UNEXPECTED PAGE COUNTERS.**

Explanation: The page counters returned in the printer response do not match the PSF internal page counters. The printer might not have recognized a page was sent by PSF. This message is only issued when using a SNA or TCP/IP attached printer.

System action: PSF processing ends abnormally by issuing abend 024 and abend reason code 02BE. PSF begins restart processing. If this message is issued frequently, PSF might continue with abnormal ending and not perform restart processing

User response: No response is necessary.

System programmer response: This error is most likely a logic error in the printer microcode, but could be a PSF logic error. Contact your hardware service representative.

To determine if PSF began restart processing, check the operator console for message APS038I and to verify it was successful, check the console for message APS057I. If restart processing fails, PSF issues message APS053I and continues with abnormal ending. If message APS6503I is issued frequently , PSF might continue with abnormal ending and take a SVC dump. For more information concerning PSF restart processing, refer to *PSF for z/OS: Diagnosis*.

Operator Response: If this message is displayed frequently or restart processing failed, contact your system programmer.

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Problem determination: Items 1, 9,18.

APS6504I   THE MESSAGE LENGTH IN THE TCP/IP PREFIX IS GREATER THAN THE MAXIMUM LENGTH ALLOWED.

Explanation: The message length in the TCP/IP prefix is greater than the maximum message length allowed.

System action: If in the process of bringing up the session, PSF attempts to restart the session. If already in session, PSF brings down the session and attempts to restart the session.

User response: No response is necessary.

System programmer response: This indicates a possible logic error in the microcode of the printer or another problem with the printer. Contact your hardware service provider or the person responsible for the printer for assistance.

Operator Response: This indicates a possible logic error in the microcode of the printer or another problem with the printer. Contact your hardware service provider or the person responsible for the printer for assistance.

Problem determination: Items 1, 18.

APS6505I   INITAPI FAILED FOR TCP/IP ADDRESS SPACE NAME OF (*tcpip name***) WITH A RETURN CODE OF (***nnnn***) AND AN ERRNO = ***errno***.**

Explanation: The INITAPI call to TCP/IP failed. *nnnn* is the return code from the call, and *errno* is the TCP/IP error number. *tcpip name* is the TCP/IP address space name: either the default name, TCPIP, or the name specified as a parameter on the EXEC statement.

The INITAPI call failed for a condition that can be tried again. PSF is trying the INITAPI call again and continues retrying the call for the duration of the connect interval timer (CONNINTV).

To interpret the ERRNO, refer to *z/OS Communications Server: IP and SNA Codes*.

Error numbers (*errno*s) associated with this message are:

Error number	Error
1036	TCP/IP is not installed or not active.
10218	Application programming interface (API) cannot locate the specified TCP/IP.

In either case, ensure that TCP/IP is active.

System action: The INITAPI call has been tried again and continues to be tried until the call completes successfully or the connect interval timer expires. If FAILURE=WCONNECT on the PRINTDEV statement in the PSF startup procedure or Failure action = Wait for

connect in the Printer Inventory, PSF tries to perform the INITAPI call continuously, issuing the APS6505I message only when the ERRNO changes between attempts.

User response: No response is necessary.

System programmer response: The problem occurred because TCP/IP is not active. Start TCP/IP or ensure that TCP/IP is started before starting the printer.

Operator Response: The problem occurred because TCP/IP is not active. Start TCP/IP or ensure that TCP/IP is started before starting the printer.

Problem determination: Items 1, 19.

APS6506I   PRINTER INFORMATION FOR *prtnnnn* COULD NOT BE WRITTEN TO THE *location* DUE TO ERROR: *error*

Explanation: While PSF was attempting to write the printer information for printer *prtnnnn* to *location*, an error occurred and prevented PSF from writing the printer information.

location can be one of these:

PRTINFO DATA SET
>   PSF was attempting to write the printer information to the printer information data set specified by the PRTINFO DD statement in the PSF startup procedure.

SYSTEM LOG
>   Using the PSF operator interface, the operator requested that PSF write the printer information to the system log.

error describes the error that occurred and can be one of these:

STORAGE ALLOCATION FAILURE.
>   PSF was attempting to get storage required for processing, but a GETMAIN failed.

MEMBER COULD NOT BE WRITTEN TO THE PRTINFO DATA SET.
>   PSF was attempting to write the member for *prtnnnn* to the printer information data set, but an I/O error occurred.

PRTINFO DD STATEMENT WAS NOT SPECIFIED.
>   The PRTINFO DD statement, which specified the printer information data set, was not specified in the PSF startup procedure.

System action: PSF stops writing the printer information and continues processing. No data is written to the system log or printer information data set.

User response: No response is necessary.

System programmer response: If the error was caused because PSF could not get storage, increase the REGION parameter in the PSF startup procedure. If the PRTINFO DD statement was not specified, add it to

the PSF startup procedure. For more information about the PSF startup procedure, refer to *PSF for z/OS: Customization*. If the error was due to an I/O error, check the operator console for message IECxxxI to determine the cause of the I/O error. For more information about message IECxxxxI, refer to *z/OS MVS System Messages, Vol 7 (IEB-IEE)*.

Operator Response: Inform your system programmer that this error occurred. If the PSF operator interface was used to write the printer information to the system log, issue the command again.

Problem determination: Item 1.

APS6507I **PRINTER INFORMATION FOR** *prtnnnn* **CANNOT BE DISPLAYED BECAUSE THE INFORMATION IS NOT PROVIDED BY A** *pppp* **PRINTER.**

Explanation: Printer information was requested for a *pppp* printer that does not provide the Sense Type and Model (STM) and Obtain Printer Characteristics (OPC) command responses that PSF uses to generate the printer information. *pppp* is either 3800 or 3820.

System action: PSF does not write the printer information to the system log or the printer information data set.

User response: No response is necessary.

System programmer response: If the printer information was to be written to the printer information data set, remove or specify **no** on the PRTINFO parameter in the PRINTDEV JCL for this printer, or specify **no** on the save-printer-information parameter in the Printer Inventory. Removing the PRTINFO DD statement from the PSF startup procedure prevents this message from occurring again, but could cause APS6506I to be issued for other printers.

Operator Response: Printer information cannot be displayed for a 3800 or 3820 printer. If the PSF operator interface is being used to write the printer information to the system log, only request printer information for printers other than a 3800 or 3820. If the printer information was to be written to the printer information data set, inform your system programmer that this error occurred.

Problem determination: Item 1.

APS6508I **PRTINFO DISPLAY DATA**

Explanation: Using the PSF operator interface, the operator requested that PSF write the printer information to the system log. For more information, refer to *PSF for z/OS: Diagnosis*.

System action: PSF displays the printer information to the system log and continues processing.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS6509I **PRINTER INFORMATION FOR** *prtnnnn* **COULD NOT BE WRITTEN TO THE SYSTEM LOG BECAUSE THE PRINTER HAS NOT BEEN CONTACTED.**

Explanation: The operator used the PSF operator interface to request that PSF write the printer information for printer *prtnnnn* to the system log. However, the information was not obtained from the printer because PSF was not connected to the printer. PSF was probably not connected to the printer because the MGMTMODE parameter on the PRINTDEV statement was set to OUTAVAIL or, if using the Printer Inventory, the Management mode parameter was set to Output available and PSF had not processed the first job. After PSF processes the first job, the printer information can be displayed in the system log.

System action: PSF does not write the printer information to the system log.

User response: No response is necessary.

System programmer response: If you want PSF to display the printer information even if a job has not been processed, specify MGMTMODE = IMMED on the PRINTDEV statement or Management Mode = Immediate in the Printer Inventory. Refer to *PSF for z/OS: Customization* for more information. You can also use the PRTINFO parameter in the PRINTDEV statement or the Save-printer-information parameter in the Printer Inventory to write printer information to a data set. Refer to *PSF for z/OS: Diagnosis* for more information.

Operator Response: When PSF starts to process the first job, issue the MVS MODIFY command to display the printer information in the system log. Otherwise, inform your system programmer that this error occurred.

Problem determination: Item 1.

APS6510I **AN UNEXPECTED COMMUNICATION FAILURE OCCURRED. PRINTING WILL BE RESTARTED AT A PREVIOUS CHECKPOINT, AND PAGES MIGHT BE DUPLICATED.**

Explanation: PSF detected a communication failure with the printer; for example, the session was lost during page processing. Printing is restarted at the most recent checkpoint or the beginning of the data set; therefore, some pages might be reprinted. This message appears on the operator console.

System action: The data set being printed at the time of the error is restarted from the most recent checkpoint before the interrupt. If no checkpoints have been

reached, the data set is reprinted from the beginning.

User response: Examine your output for duplicate pages.

System programmer response: No response is necessary.

Operator Response: To determine an appropriate response, see the specific error conditions described in any accompanying console messages.

Problem determination: Items 1, 25, 26, 27.

| **APS6511I**   **INTERVENTION REQUIRED, DEV=***pppp***, IPADDR=***ipaddr***.**

Explanation: A condition that requires intervention such as a paper jam, has occurred on a TCP/IP-attached printer. The message uses these variables to describe the printer:

pppp   is the printer device type; for example, 4322.

ipaddr   specifies the Internet Protocol address or host name of the TCP/IP-attached printer.

System action: PSF stops processing. When the intervention condition is cleared, this message is deleted and PSF continues processing.

User response: No response is necessary.

System programmer response: If you do not want this message to be issued for this printer, set the Exit 7 XTP7IMSG flag to B'0' or set the Issue intervention messages value in the Printer Inventory to NO.

Operator Response: When this message displays on the console, it indicates that there is a condition that requires intervention at a TCP/IP-attached printer. Refer to the operator's guide for the printer that reported this condition, and clear the condition at the printer. If you do not want this message to be issued for this printer, contact your system programmer.

Problem determination: Items 1, 8, 18.

APS6512I   **AN UNEXPECTED COMMUNICATION FAILURE OCCURRED. THE JOB WILL BE RESTARTED AT A PREVIOUS CHECKPOINT. ERRNO = ***errno***.**

Explanation: AFP Download Plus detected a communication failure with the remote system; for example, the session was lost. The job is restarted at the most recent checkpoint or the beginning of the job. AFP Download Plus can issue this message when TCP/IP is recycled. This message appears on the operator console.

ERRNO (*errno*) specifies the TCP/IP error number. To interpret the error number, refer to *z/OS Communications Server: IP and SNA Codes*.

A common error number associated with this message is:

0   The remote system has closed its end of the socket connection. Determine why the remote system has closed the connection.

System action: The job is resent from the checkpoint before the interrupt. If no checkpoints have been reached, the data set is resent from the beginning.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: To determine an appropriate response, see the specific error conditions described in any accompanying console messages.

Problem determination: Items 1, 19.

| **APS6513I**   **CONNECTION WITH TCP/IP-ATTACHED**
| **REMOTE SYSTEM (***fsaname***) IPADDR**
| **(***ip-address***) PORT NUMBER**
| **(***portnumber***) IS BEING TRIED AGAIN**
| **BECAUSE OF A PREVIOUSLY**
| **DETECTED CONDITION (***reason***),**
| **TCP/IP ERRNO = ***errno***.**

Explanation: Communication with the remote (receiver) system has ended for a condition that can be tried again. AFP Download Plus is trying to reestablish the connection.

| TCP/IP ERRNO=*errno* specifies the TCP/IP error
| number and PORT NUMBER (*port number*) specifies
| the port number of the TCP/IP-attached remote system.
| To interpret the error number, refer to *z/OS*
| *Communications Server: IP and SNA Codes*.

Common error numbers associated with this message are:

0   See the previously displayed message for a description of the problem.

49   AFP Download Plus cannot reach the destination, indicating a bad IP address.

61   The connection has been refused. This can happen when:

- The remote system is accepting a connection with another partner and refuses other connections while completing the current request.

- The port numbers at the host (sender) system and the remote system do not match.

SYSTEM (*fsaname*) specifies the name of the PRINTDEV statement.

IPADDR (*ip-address*) specifies the IP address of the TCP/IP-attached remote system.

CONDITION (*reason*) can be any of these:

SOCKET FAILED

> AFP Download Plus was not able to get a socket on the z/OS operating system.

SOCKET CONNECT FAILED

> AFP Download Plus failed to establish a socket connection with the remote system. AFP Download Plus displays this reason when:
>
> - The remote system is not started.
> - The wrong IP address is specified in the Printer Inventory or in the PRINTDEV statement.
> - The IP address specified is a duplicate of another IP address on the network.
> - The port numbers at the host and the remote system do not match.

System action: AFP Download Plus has tried to restart the connection and waits for activation to complete. AFP Download Plus continues to try to restart the connection, issuing message APS6513I only when the ERRNO or REASON code changes between attempts.

User response: No response is necessary.

System programmer response: If any values in the Printer Inventory or on the PRINTDEV statement are incorrect, correct the incorrect items.

If a communication-attachment failure occurred, use the PING command with the IP address in the message to ensure that this remote system's TCP/IP socket connection to this address is active. For information on how to ping an IP address, refer to *PSF for z/OS: Customization*.

Operator Response: If CONDITION and ERRNO explain why communication with the remote system ended, fix the problem and restart the FSA. If the CONDITION does not explain why the communication session with the remote system ended, notify your system programmer.

If the remote system does not respond to AFP Download Plus, stop the FSA with this command:

```
MODIFY fss-name,FORCE,fsa-name
```

Problem determination: Items 1, 27.

APS6514I   COMMUNICATION WITH TCP/IP-ATTACHED REMOTE SYSTEM (*fsaname*) IPADDR (*ip-address*) WAS ENDED, CAUSE (*reason*) TCP/IP ERRNO = *errno*.

Explanation: A network error has caused communication with the remote system to end. The TCP/IP connection with the remote system cannot be established, for one of these reasons:

- The error condition cannot be tried again.
- The connect interval (CONNINTV) timer has expired.

Message APS6514I is issued from the AFP Download Plus ESTAE. This message does not have complete information if the error is a network error or communication error. If AFP Download Plus has tried the error again, APS6513I precedes APS6514I and has more detailed CAUSE information. If message APS6513I is issued, use it to determine the cause.

Common error numbers associated with this message are:

49   AFP Download Plus cannot reach the destination, indicating a bad IP address.

60   The remote system might not be active.

61   The connection has been refused. This can happen when:

> - The remote system is accepting a connection with another partner and refuses other connections while completing the current request.
> - The port numbers at the host and the remote system do not match.

REMOTE SYSTEM (*fsaname*) specifies the name of the PRINTDEV statement.

IPADDR (*ip-address*) specifies the IP address of the TCP/IP-attached remote system.

CAUSE (*reason*) can be:

SOCKET CONNECT FAILED

> AFP Download Plus failed to establish a socket connection with the remote system. PSF displays this reason when:
>
> - The remote system is not started.
> - The wrong IP address is specified in the Printer Inventory or in the PRINTDEV statement.
> - The IP address specified is a duplicate of another IP address on the network.
> - The port numbers at the host and the remote system do not match.

System action: The AFP Download Plus FSA ends because the condition cannot be tried again or the connect interval (CONNINTV) timer has expired.

User response: No response is necessary.

System programmer response: If any values in the Printer Inventory or on the PRINTDEV statement are incorrect, correct the incorrect items.

If a communication-attachment failure occurred, use the PING command with the IP address in the message to ensure that this remote system's TCP/IP socket connection to this address is active. For information on how to ping an IP address, refer to *PSF for z/OS: Customization*.

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If you changed a PRINTDEV parameter on the AFP Download Plus startup procedure, such as the IP address, you must restart the AFP Download Plus FSS to use the changes.

If you changed a parameter in the Printer Inventory, you must restart the AFP Download Plus FSA to use the changes.

If the error condition persists, consult the IBM Support Center.

Operator Response: If CAUSE and ERRNO explain why communication with the remote system ended, fix the problem and restart the FSA. Otherwise, notify your system programmer.

Problem determination: Items 1, 17, 19.

APS6515I   THE REQUIRED RESPONSE WAS NOT RECEIVED FROM THE REMOTE SYSTEM.

Explanation: AFP Download Plus did not receive a required response from the remote system. This could be caused by one of these:
- Another FSA actively communicating with the same download receiver. This is just a warning message and should be ignored because the connection will be completed when the other FSA has finished with its connection.
- An incorrect version of the download receiver is in use. Either an old version of the download receiver is being used or secure transmission is deactivated and a version of the download receiver is being used that does not support secure transmission deactivation.

System action: Processing continues while AFP Download Plus waits indefinitely for the required response.

User response: No response is necessary.

System programmer response: If multiple FSAs are using the same download receiver and the correct version of the download receiver is being used, no response is necessary.

Verify that the correct version of the download receiver is being used. AFP Download Plus requires a newer version of the download receiver than Download for z/OS requires. Deactivating secure transmission requires a new version of the download receiver.

Operator Response: If multiple FSAs are using the same download receiver and the correct version of the download receiver is being used, no response is necessary. Otherwise, inform your system programmer that this error occurred.

Problem determination: Items 1.

APS7000I   THE INVOCATION OF CEEPIPI TO INVOKE A C EXIT FAILED WITH RETURN CODE (*return code*).

Explanation: A nonzero return code was received from this invocation of CEEPIPI to invoke the C exit as a subroutine. Return codes associated with this message are:

Return Code	Explanation
04	The function code is not valid.
08	CEEPIPI was called from a Language Environment-conforming HLL.
12	The indicated environment was initialized for main routines. No routine was run.
16	The token is not valid.
20	The index points to an entry that is not valid or is empty.
24	The index passed is outside the range of the table.
28	This value indicates the enclave was stopped while the process was retained. This can occur if a STOP statement is issued or if there is an unhandled condition. The *sub_ret_code, sub_reason_code*, and *sub_feedback_code* indicate this action.

For more information on this invocation of CEEPIPI and its return codes, refer to *z/OS Language Environment Programming Guide*.

System action: PSF processing ends abnormally with an abend 024 and abend reason code 0A59, 0A5A, or 0A5B.

User response: No response is necessary.

System programmer response: If the problem cannot be diagnosed from the return code, contact the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17, 19, 27.

APS7001I   THE INVOCATION OF BPX1SDD FOR PROCESS DUBBING FAILED WITH RETURN CODE (*return code*) AND REASON CODE (*reason code*).

Explanation: A bad return code was received from the BPX1SDD UNIX System Services callable service. For more information about this invocation refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference*. For information about its return and reason codes, refer to *z/OS UNIX System*

Services Messages and Codes.

System action: Processing continues without the installation exits that are written in C. All assembler exits are used.

User response: No response is necessary.

System programmer response: If the problem cannot be diagnosed from the return code and reason code, contact the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17.

APS7002I   ACTIVATING BOTH 3800 LINE MODE CONVERSION AND LINE MODE MIGRATION IS NOT ALLOWED.

Explanation: Both 3800 Line-Mode Conversion and Line Mode Migration were activated for the same data set. This combination is not allowed.

System action: PSF processing ends abnormally with an abend 024 and abend reason code 0A5F.

User response: No response is necessary.

System programmer response: Either disable 3800 Line-Mode Conversion processing in PSF Exit 4 or 14, or disable Line Mode Migration processing in PSF Exit 8 for this data set.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 19.

APS7003I   ACTIVATING BOTH LINE MODE MIGRATION FOR A 4245 FCB AND LINE MODE MIGRATION FOR A 4248 FCB IS NOT ALLOWED.

Explanation: Both Line Mode Migration processing for a 4245 FCB and Line Mode Migration processing for a 4248 FCB were activated for the same data set. This combination is not allowed. Either 4245 FCB or 4248 FCB processing can be active for the data set, but not both.

System action: PSF processing ends abnormally with an abend 024 and abend reason code 0A60.

User response: No response is necessary.

System programmer response: In the PSF Exit 8, disable either 4245 FCB Line Mode Migration processing or 4248 FCB Line Mode Migration for this data set.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 19.

APS7004I   INSTALLATION EXIT 7 HAS CHANGED THE VALUE OF THE AFPSTATS OUTPUT STATEMENT PARAMETER TO *value***.**

Explanation: Exit 7 has changed the value of the AFPSTATS Output statement parameter. It has either changed it from "yes" to "no" or from "no" to "yes".

System action: PSF places this message in the message data set and continues processing.

User response: If this change is not acceptable, contact your system programmer.

System programmer response: If you want Exit 7 to control whether the AFP Statistics Report is written, no response is necessary. If not, remove or modify Exit 7.

Operator Response: No response is necessary.

Problem determination: Items 1, 8.

APS7005I   THE INVOCATION OF BPX1SDD FOR PROCESS DUBBING FAILED WITH RETURN CODE (*return code***) AND REASON CODE (***reason code***).**

Explanation: A bad return code was received from the BPX1SDD UNIX System Services callable service. For more information about this invocation, refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference*. For information about its return and reason codes, refer to *z/OS UNIX System Services Messages and Codes*.

System action: PSF processing ends abnormally with an abend 027 and abend reason code 0A50.

User response: No response is necessary.

System programmer response: If the problem cannot be diagnosed from the return code and reason code, contact the IBM Support Center.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 17.

APS8000I   THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE CHARACTER *character* **IS NOT VALID IN THE DATA SET NAME.**

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. The name of this data set consists of one to five qualifiers separated by periods and optionally followed by a member name in parentheses. The qualifiers must contain only these characters:
• Alphabetic characters (A–Z)
• Numeric characters (0–9)

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- United States national characters (@, #, and $)

  Incorrect: `JANE'S.AFP.CONTROL.PARMS(LDPARMS)`
  Correct: `MY.AFP.CONTROL.PARMS(LDPARMS)`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8001I	THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE FIRST CHARACTER IN THE DATA SET NAME CANNOT BE A PERIOD.

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. Periods are used to separate qualifiers in the data set name, but must not be used before the first qualifier.

  Incorrect: `.MY.AFP.CONTROL.PARMS`
  Correct: `MY.AFP.CONTROL.PARMS`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8002I	THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE LAST CHARACTER IN THE DATA SET NAME CANNOT BE A PERIOD.

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. Periods are used to separate qualifiers in the data set name, but must not be used after the last qualifier.

  Incorrect: `MY.AFP.CONTROL.PARMS.`
  Correct: `MY.AFP.CONTROL.PARMS`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8003I	THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE DATA SET NAME CANNOT HAVE MORE THAN FIVE QUALIFIERS SEPARATED BY PERIODS.

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. While the z/OS operating system allows data set names to have as many as 22 qualifiers, this data set name cannot have more than five.

  Incorrect:
  `MY.CONTROL.PARMS.FOR.AFP.DOWNLOAD.PLUS`
  Correct: `MY.AFP.CONTROL.PARMS`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8004I	THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE DATA SET NAME CANNOT HAVE MORE THAN ONE PERIOD SEPARATING TWO QUALIFIERS.

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. There are multiple periods between two qualifier names. Only one period is allowed.

  Incorrect: `MY.AFP..CONTROL.PARMS`
  Correct: `MY.AFP.CONTROL.PARMS`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8005I   THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. A DATA SET NAME QUALIFIER CANNOT CONTAIN MORE THAN EIGHT CHARACTERS.

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. A qualifier name is longer than the limit of eight characters.
>   **Incorrect:** `MY.AFP.CONTROL.PARAMETERS`
>   **Correct:** `MY.AFP.CONTROL.PARMS`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8006I   THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. A DATA SET NAME CANNOT CONTAIN A NUMBER AS THE FIRST CHARACTER IN A QUALIFIER.

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. Qualifiers can contain the numeric characters (0–9), but they must begin with one of these characters:
- Alphabetic characters (A–Z)
- United States national characters (@, #, and $)
>   **Incorrect:** `MY.AFP.CONTROL.3PARMS`
>   **Correct:** `MY.AFP.CONTROL.PARMS3`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8007I   THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE DATA SET NAME IS MISSING A PARENTHESIS.

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. One of the parentheses around the member name is missing.
>   **Incorrect:** `MY.AFP.CONTROL.PARMS(LDPARMS`
>   **Incorrect:** `MY.AFP.CONTROL.PARMSLDPARMS)`
>   **Correct:** `MY.AFP.CONTROL.PARMS(LDPARMS)`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8008I   THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE MEMBER NAME ENCLOSED IN PARENTHESES MUST BE AT THE END OF THE DATA SET NAME.

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. Characters must not be used after the closing parenthesis of the member name.
>   **Incorrect:** `MY.AFP.CONTROL.PARMS(LDPARMS).SET1`
>   **Correct:** `MY.AFP.CONTROL.PARMS.SET1(LDPARMS)`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8009I   THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE MEMBER NAME MUST CONTAIN ONE TO EIGHT CHARACTERS.

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the

AFPPARMS parameter in the OUTPUT JCL statement. Either the member name is longer than eight characters or there is no member name in the parentheses.

Incorrect: `MY.AFP.CONTROL.PARMS(LDPARAMETERS)`
Correct: `MY.AFP.CONTROL.PARMS(LDPARMS)`
Incorrect: `MY.AFP.CONTROL.PARMS()`
Correct: `MY.AFP.CONTROL.PARMS`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the member in the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8010I   **THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE FIRST CHARACTER IN A MEMBER NAME CANNOT BE A NUMBER.**

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. The member name can contain the numeric characters (0–9), but it must begin with one of these characters:
- Alphabetic characters (A–Z)
- United States national characters (@, #, and $)
    Incorrect: `MY.AFP.CONTROL.PARMS(1PARMS)`
    Correct: `MY.AFP.CONTROL.PARMS(PARMS1)`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the member in the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8012I   **THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE MEMBER NAME CANNOT BE IMMEDIATELY PRECEDED BY A PERIOD.**

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. Unlike qualifiers, the member name must not be preceded by a period.

Incorrect: `MY.AFP.CONTROL.PARMS.(LDPARMS)`
Correct: `MY.AFP.CONTROL.PARMS(LDPARMS)`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the member in the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8013I   **THE DATA SET NAME SPECIFIED WITH THE AFPPARMS PARAMETER CONTAINS AN ERROR. THE CHARACTER** *character* **IS NOT VALID IN THE MEMBER NAME.**

Explanation: There is an error in the name of the AFP Download Plus control data set specified with the AFPPARMS parameter in the OUTPUT JCL statement. The member name must contain only these characters:
- Alphabetic characters (A–Z)
- Numeric characters (0–9)
- United States national characters (@, #, and $)
    Incorrect: `MY.AFP.CONTROL.PARMS(LD_PARMS)`
    Correct: `MY.AFP.CONTROL.PARMS(LDPARMS)`

System action: PSF stops processing the current print data set, releases it back to JES, and requests that it be held by the system.

User response: If necessary, rename the member in the AFP Download Plus control data set. Correct the OUTPUT JCL statement.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8014I   **AN ERROR OCCURRED WHILE PROCESSING THE** *identifier* **DATA SET** *data set name*. **RETURN CODE** *return code*. **REASON CODE** *decimal reason code*/*hexadecimal reason code*.

Explanation: An error occurred while PSF was opening or reading a sequential data set or a partitioned data set member. The identifier indicates how you specified the data set name and can have these values:

STARTUP PROCEDURE AFPPARMS
        This identifier indicates that the data set name came from the AFPPARMS DD statement in the AFP Download Plus startup procedure.

OUTPUT STATEMENT AFPPARMS
This identifier indicates that the data set name came from the AFPPARMS parameter on the OUTPUT statement.

The return code indicates the underlying system function that failed. The reason code is from the corresponding system function:

Return Code	Explanation
1	The reason code is the value of S99ERROR from the DFSMS™ DYNALLOC macro.
2	The reason code is the value of S99EERR from the DFSMS DYNALLOC macro.
3	The reason code is the value of register 15 from the DFSMS OPEN macro.
4	The reason code is the return code from an abend that occurred with the DFSMS OPEN macro.
5	The reason code is the value of register 1 that was passed to the SYNAD routine by the DFSMS GET macro.

System action: For the OUTPUT statement AFPPARMS, AFP Download Plus stops processing the current print data set, releases it back to JES, and requests that it be held by the system. For the startup procedure AFPPARMS, AFP Download Plus issues the error message to the console, and the FSA stops abnormally.

User response: Verify the data set name that you specified. Verify that the data set exists and that AFP Download Plus has authorization to read it.

System programmer response: Verify the data set name that you specified. Verify that the data set exists and that AFP Download Plus has authorization to read it.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS8015I AN ERROR OCCURRED WHILE CREATING A TOKEN FROM A CONTROL PARAMETER IN THE *identifier* **DATA SET** *data set name*. **RECORD NUMBER** *number*. **RETURN CODE** *return code*.

Explanation: PSF detected a syntax error while processing records from a sequential data set or a partitioned data set member. The identifier indicates how you specified the data set name and can have these values:

STARTUP PROCEDURE AFPPARMS
This identifier indicates that the data set name came from the AFPPARMS DD statement in the AFP Download Plus startup procedure.

OUTPUT STATEMENT AFPPARMS
This identifier indicates that the data set name came from the AFPPARMS parameter on the OUTPUT statement.

The record number indicates the location of the error in the data set. The return code indicates the type of error that occurred:

Return Code	Explanation
2	The last control parameter in the data set is not complete. One or more values are missing.
3	The keyword separator is missing. **Incorrect:** `color red` **Correct:** `color = red`
4	The group begin delimiter occurs within a group. A group end delimiter is missing. **Incorrect:** `color = (red,bright(` **Correct:** `color = (red,bright)`
5	The group end delimiter occurs outside a group. A group begin delimiter or a string delimiter is missing. **Incorrect:** `color =  color = red)` **Correct:** `color = (red)`
6	The group separator occurs outside a group. A group begin delimiter or a string delimiter is missing. **Incorrect:** `color = red,bright)` **Correct:** `color = (red,bright)`
7	The string end delimiter is missing. **Incorrect:** `place = "Tony's Pizza` **Correct:** `place = "Tony's Pizza"`
8	A string delimiter occurs within a non-string value. A string begin delimiter is missing. **Incorrect:** `place = Tony's Pizza"` **Correct:** `place = "Tony's Pizza"`
9	A group begin delimiter occurs inside a non-string value. A string begin delimiter is missing. **Incorrect:** `parenthetical = (some phrase)"` **Correct:** `parenthetical = "(some phrase)"`
10	Extra text occurs outside a string or comment. A string delimiter or comment delimiter is missing. **Incorrect:** `color = red my favorite color` **Correct:** `color = red # my favorite color`
11	A hexadecimal string contains characters that are not valid, or a character is missing. **Incorrect:** `color = 'D9V5C4'x` **Correct:** `color = 'D9C5C4'x`

System action: For the OUTPUT statement

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AFPPARMS, AFP Download Plus stops processing the current print data set, releases it back to JES, and requests that it be held by the system. For the startup procedure AFPPARMS, AFP Download Plus issues the error message to the console, and the FSA stops abnormally.

User response: Verify and correct the syntax of the control parameter.

System programmer response: Verify and correct the syntax of the control parameter.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS8016I   **AN ERROR OCCURRED WHILE INTERPRETING A CONTROL PARAMETER IN THE** *identifier* **DATA SET** *data set name*. **RECORD NUMBER** *number*. **KEYWORD** *keyword*. **RETURN CODE** *return code*.

Explanation: PSF detected a syntax error while processing records from a sequential data set or a partitioned data set member. The identifier indicates how you specified the data set name and can have the following values:

STARTUP PROCEDURE AFPPARMS
> This identifier indicates that the data set name came from the AFPPARMS DD statement in the AFP Download Plus startup procedure.

OUTPUT STATEMENT AFPPARMS
> This identifier indicates that the data set name came from the AFPPARMS parameter on the OUTPUT statement.

The record number indicates the last record of the data set for the control parameter that is in error. The keyword is in the first record of the control parameter. The return code indicates the type of error that occurred:

Return Code	Explanation
1	The keyword is not recognized. **Incorrect:** `nummber = 10` **Correct:** `number = 10`
2	The value is not valid. **Incorrect:** `number = ten` **Correct:** `number = 10`
3	The option is not valid for the keyword. **Incorrect:** `color = rainy` **Correct:** `color = red`
4	There are too many values for the keyword. The maximum number of values varies by keyword. **Incorrect:** `color = (red,green,blue)`

Correct: `color = red`

5	There are too few values for the keyword. The minimum number of values varies by keyword. **Incorrect:** `time = hours` **Correct:** `time = (hours,minutes,seconds)`
6	The keyword is specified more than once, when only one instance is allowed. **Incorrect:** `oldest = Mary, oldest = John` **Correct:** `oldest = Mary`
7	The string value is too short. The minimum string length varies by keyword. **Incorrect:** `jobname = ""` **Correct:** `jobname = "CHECKS"`
8	The string value is too long. The maximum string length varies by keyword. **Incorrect:** `jobname = "JULY_CHECKS"` **Correct:** `jobname = "CHECKS"`
9	The numeric value is less than the allowed range. The allowed range varies by keyword. **Incorrect:** `speed = -1` **Correct:** `speed = 55`
10	The numeric value is greater than the allowed range. The allowed range varies by keyword. **Incorrect:** `speed = 200` **Correct:** `speed = 55`
11	Two options cannot both be valid at the same time. **Incorrect:** `weather = (rainy,dry)` **Correct:** `weather = (rainy,wet)`
12	The number of values is not valid. It might not be clear whether you specified too many values or too few. The required number of values varies by keyword. **Incorrect:** `car-tires = (tire1,tire2,tire3)` **Correct:** `car-tires = (tire1,tire2,tire3,tire4)`

System action: For the OUTPUT statement AFPPARMS, AFP Download Plus stops processing the current print data set, releases it back to JES, and requests that it be held by the system. For the startup procedure AFPPARMS, AFP Download Plus issues the error message to the console, and the FSA stops abnormally.

User response: Verify and correct the syntax of the control parameter.

System programmer response: Verify and correct the syntax of the control parameter.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: None.

APS8017I AFP DOWNLOAD PLUS HAS REMOVED THE *-o name* **ATTRIBUTE SPECIFIED BY EXIT 15.** *-o name* **WILL NOT BE SENT TO THE RECEIVER.**

Explanation: A -o attribute, such as OUTGRP, is not supported by the AFP Download Plus receiver. Therefore, AFP Download Plus ignores the -o attribute specified by Exit 15.

System action: AFP Download Plus continues to process the job, but does not send the -o attribute to the receiver.

User response: No response is necessary.

System programmer response: To stop issuing this message, change Exit 15 so the -o attribute is not specified.

Operator Response: Notify your system programmer that this error occurred.

Problem determination: None.

APS8200I A POSSIBLE LOGIC ERROR OCCURRED WHILE AFP DOWNLOAD PLUS ATTEMPTED TO CONNECT TO THE REMOTE SYSTEM.

Explanation: AFP Download Plus attempted to connect to the remote system. An internal logic error occurred.

System action: The AFP Download Plus FSA stops with abend 024 and abend reason code 03ED.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error. Contact your remote service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8201I A POSSIBLE LOGIC ERROR OCCURRED WHILE AFP DOWNLOAD PLUS ATTEMPTED TO DISCONNECT FROM THE REMOTE SYSTEM.

Explanation: AFP Download Plus attempted to disconnect from the remote system. An internal logic error occurred.

System action: The AFP Download Plus FSA stops with abend 024 and abend reason code 03EE.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error. Contact your remote service representative, contact your service representative in the IBM Support Center, or use your

electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8202I A POSSIBLE LOGIC ERROR OCCURRED AS AN INTERNAL OPERATION FAILED.

Explanation: AFP Download Plus had an internal logic error.

System action: The AFP Download Plus FSA stops with completion code 024 and one of these PSF abend reason codes: 03D6, 03E1, 03E2, 03E6, 03E9, 03F7, 03FA, or 03FC.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8203I AFP DOWNLOAD PLUS TRIED MULTIPLE TIMES TO TRANSMIT THIS DATA SET BUT HAS REACHED THE MAXIMUM NUMBER OF ATTEMPTS.

Explanation: AFP Download Plus attempted to send the data set to the remote system. AFP Download Plus encountered multiple problems during the transmission and tried to send the data set multiple times. The maximum number of attempts has been reached.

System action: AFP Download Plus does one of these:
- If the error occurs during the FSA initialization, the AFP Download Plus FSA stops with completion code 024 and abend reason code 03EC.
- If the error occurs during data set processing, and no other errors occurred that stopped processing of the data set, then AFP Download Plus stops processing the data set, releases it back to JES, and requests that the data set be held by the system.
- If the error occurs during data set processing, and other errors occurred that stopped processing of the data set, the system performs the action from the error that stopped the processing of the data set.

User response: No response is necessary.

System programmer response: This message indicates that there is a possible problem with the TCP/IP network, a possible logic error with the remote system, or a possible logic error with AFP Download Plus. Other messages might be issued that have more details about the problem. Ensure that TCP/IP is functioning correctly.

If the problem persists, contact your remote service

representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17, 19.

APS8204I   **FILE** *filename* **COULD NOT BE OPENED. RETURN CODE** *return code*. **REASON CODE** *reason code*. **AFP DOWNLOAD PLUS CONTINUES TO SEND THE DATA SET TO THE REMOTE SYSTEM WITHOUT CHECKPOINTS.**

Explanation: AFP Download Plus issued a BPX1OPN request to open the identified file. The BPX1OPN open request returned with the return code and reason code in the message.

Common return codes associated with this message are:

111   Permission has been denied to access the file or directory.

129   The file or directory you are trying to access does not exist.

133   The UNIX file system is out of storage.

System action: AFP Download Plus continues sending the data set to the remote system without checkpoints.

User response: No response is necessary.

System programmer response: Verify that AFP Download Plus has permission to access the file. Determine the appropriate response by interpreting the return code and the reason code. To interpret the return code and reason code, refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference*.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 17.

APS8205I   **FILE** *filename* **COULD NOT BE WRITTEN. RETURN CODE** *return code*. **REASON CODE** *reason code*. **AFP DOWNLOAD PLUS CONTINUES TO SEND THE DATA SET TO THE REMOTE SYSTEM WITHOUT CHECKPOINTS.**

Explanation: AFP Download Plus issued a BPX1WRT request to write the identified file. The BPX1WRT write request returned with the return code and reason code in the message.

Common return codes associated with this message are:

111   Permission has been denied to access the file or directory.

129   The file or directory you are trying to access does not exist.

133   The UNIX file system is out of storage.

System action: AFP Download Plus continues sending the data set to the remote system without checkpoints.

User response: No response is necessary.

System programmer response: Verify that AFP Download Plus has permission to access the file. Determine the appropriate response by interpreting the return code and the reason code. To interpret the return code and reason code, refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference*.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 17.

APS8206I   **FILE** *filename* **COULD NOT BE READ. RETURN CODE** *return code*. **REASON CODE** *reason code*. **AFP DOWNLOAD PLUS CONTINUES TO SEND THE DATA SET TO THE REMOTE SYSTEM WITHOUT CHECKPOINTS.**

Explanation: AFP Download Plus issued a BPX1RED request to read the identified file. The BPX1RED read request returned with the return code and reason code in the message.

Common return codes associated with this message are:

111   Permission has been denied to access the file or directory.

129   The file or directory you are trying to access does not exist.

133   The UNIX file system is out of storage.

System action: AFP Download Plus continues sending the data set to the remote system without checkpoints.

User response: No response is necessary.

System programmer response: Verify that AFP Download Plus has permission to access the file. Determine the appropriate response by interpreting the return code and the reason code. To interpret the return code and reason code, refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference*.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 17, 19.

APS8207I   AFP DOWNLOAD PLUS ATTEMPTED TO CHANGE THE FILE OFFSET IN FILE *filename***, BUT THIS FUNCTION FAILED. RETURN CODE** *return code***. REASON CODE** *reason code***.**

Explanation: AFP Download Plus issued a BPX1LSK request to change the file offset. The file offset is the position in a file from which data is next read. The BPX1LSK request returned with the return code and reason code in the message.

Common return codes associated with this message are:

111   Permission has been denied to access the file or directory.

129   The file or directory you are trying to access does not exist.

133   The UNIX file system is out of storage.

System action: The AFP Download Plus FSA stops with abend 024 and abend reason code 03EA.

User response: No response is necessary.

System programmer response: Verify that AFP Download Plus has permission to access the file. Determine the appropriate response by interpreting the return code and the reason code. To interpret the return code and reason code, refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference*.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8208I   A POSSIBLE LOGIC ERROR OCCURRED WHILE AFP DOWNLOAD PLUS ATTEMPTED TO SEND DATA TO THE REMOTE SYSTEM.

Explanation: AFP Download Plus attempted to send data to the remote system. An internal logic error occurred.

System action: The AFP Download Plus FSA stops with an abend 024 and abend reason code 03E5.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error. Contact your remote service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8209I   FILE *filename* **COULD NOT BE READ. RETURN CODE** *return code***. REASON CODE** *reason code***.**

Explanation: AFP Download Plus issued a BPX1RED request to read the identified file. The BPX1RED read request returned with the return code and reason code in the message.

Common return codes associated with this message are:

111   Permission has been denied to access the file or directory.

129   The file or directory you are trying to access does not exist.

133   The UNIX file system is out of storage.

System action: The AFP Download Plus FSA stops with abend 024 and abend reason code 03EF.

User response: No response is necessary.

System programmer response: Verify that AFP Download Plus has permission to access the file. Determine the appropriate response by interpreting the return code and the reason code. To interpret the return code and reason code, refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference*.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8210I   FILE *filename* **COULD NOT BE READ. RETURN CODE** *return code***. REASON CODE** *reason code***.**

Explanation: AFP Download Plus issued a BPX1RED request to read the identified file. The BPX1RED read request returned with the return code and reason code in the message.

Common return codes associated with this message are:

111   Permission has been denied to access the file or directory.

129   The file or directory you are trying to access does not exist.

133   The UNIX file system is out of storage.

System action: The AFP Download Plus FSA stops with abend 024 and abend reason code 03E8.

User response: No response is necessary.

System programmer response: Verify that AFP Download Plus has permission to access the file. Determine the appropriate response by interpreting the return code and the reason code. To interpret the return code and reason code, refer to *z/OS UNIX System*

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Services Programming: Assembler Callable Services Reference.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8211I FILE *filename* **COULD NOT BE OPENED. RETURN CODE** *return code*. **REASON CODE** *reason code*.

Explanation: AFP Download Plus issued a BPX1OPN request to open the identified file. The BPX1OPN open request returned with the return code and reason code in the message.

Common return codes associated with this message are:

111 Permission has been denied to access the file or directory.

129 The file or directory you are trying to access does not exist.

133 The UNIX file system is out of storage.

System action: The AFP Download Plus FSA stops with abend 024 and abend reason code 03E7.

User response: No response is necessary.

System programmer response: Verify that AFP Download Plus has permission to access the file. Determine the appropriate response by interpreting the return code and the reason code. To interpret the return code and reason code, refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference*.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8212I THE HEADER EXCEEDED THE SIZE OF THE SEND BUFFER.

Explanation: AFP Download Plus added the header to the send buffer. The length of the header exceeded the length of the send buffer.

System action: The AFP Download Plus FSA stops with abend 024 and abend reason code 03E0.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error. Alternatively, the header might have grown in size until it exceeded the length of the send buffer.

Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8215I A POSSIBLE LOGIC ERROR OCCURRED WHILE AFP DOWNLOAD PLUS ATTEMPTED TO RECEIVE DATA FROM THE REMOTE SYSTEM.

Explanation: AFP Download Plus attempted to receive data from the remote system. An internal logic error occurred.

System action: The AFP Download Plus FSA stops with abend 024 and abend reason code 03E3.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error. Contact your remote service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8216I A RESPONSE *response* **THAT IS NOT SUPPORTED FOR THE** *request* **REQUEST WAS RECEIVED FROM THE REMOTE SYSTEM.**

Explanation: AFP Download Plus expected a response from the remote system to the request. However, the response that was received is not supported.

System action: The AFP Download Plus FSA stops with a completion code 024 and abend reason code 03E4 or 03F9.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8217I THE REMOTE SYSTEM DID NOT SUCCESSFULLY PROCESS THE RECEIVED DATA SET OR THE NUMBER OF BYTES SENT BY AFP DOWNLOAD PLUS DOES NOT MATCH THE NUMBER OF BYTES RECEIVED BY THE REMOTE SYSTEM.

Explanation: The remote system indicated that an error occurred with the received data set. Either the script or exit invoked by the download receiver encountered an error, or the number of bytes sent by AFP Download Plus is not the same as the number of bytes received by the remote system.

System action: Depending on the error at the remote system, one of these occurs:

- AFP Download Plus attempts to resend the data set from the previous checkpoint. If there is no previous checkpoint, it resends the data set from the beginning.
- AFP Download Plus attempts to resend the data set from the beginning.
- AFP Download Plus stops processing the data set, releases it back to JES, and requests that the data set be held by the system.
- The AFP Download Plus FSA stops with a completion code 024 and abend reason code 03D2 or 03D3.

User response: No response is necessary.

System programmer response: Check the accompanying messages (if they exist) for information about the cause of the error, or check the error logs on the remote system for messages that provide additional information about the cause of the error. This message could indicate a possible logic error in AFP Download Plus or the remote system. If the problem persists, contact your remote system service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 2, 17, 19.

APS8218I THE DATA SET WAS RESENT FROM THE LAST CHECKPOINT, BUT THE FILENAME WAS NOT FOUND BY THE REMOTE SYSTEM. THE DATA SET WILL BE RESENT FROM THE BEGINNING.

Explanation: Because of a problem, the data set was resent from the previous checkpoint; but the remote system could not find the file name of the data set.

System action: AFP Download Plus attempts to resend the data set from the beginning.

User response: No response is necessary.

System programmer response: This message could indicate a possible logic error in AFP Download Plus or the remote system. If the problem persists, contact your remote system service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 17, 19.

APS8219I THE DATA SET WAS RESENT FROM THE LAST CHECKPOINT, BUT THE BYTE COUNT WAS NOT CORRECT. THE DATA SET WILL BE RESENT FROM THE BEGINNING.

Explanation: Because of a problem, the data set was resent from the previous checkpoint; but the remote

system could not find the byte count of the data set.

System action: AFP Download Plus attempts to resend the data set from the beginning.

User response: No response is necessary.

System programmer response: This message could indicate a possible logic error in AFP Download Plus or the remote system. If the problem persists, contact your remote system service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 17, 19.

APS8220I COMPRESSION WAS REQUESTED FOR THIS FSA, BUT THE REMOTE SYSTEM CONNECTED TO AFP DOWNLOAD PLUS DOES NOT SUPPORT COMPRESSION. COMPRESSION IS DEACTIVATED.

Explanation: Compression support was requested by setting the compression parameter to LZW in the AFPPARMS DD statement data set for this FSA. However the remote system attached to AFP Download Plus does not support the compression requests necessary for compression.

System action: AFP Download Plus does not use compression for this FSA.

User response: No response is necessary.

System programmer response: If compression is not needed for this FSA, set the `compression` parameter to NONE or ignore this message. If compression is needed for this FSA, find a remote system that supports compression.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 23

APS8221I MULTIPLE DATA SET SUPPORT WAS REQUESTED FOR THIS FSA, BUT THE REMOTE SYSTEM CONNECTED TO AFP DOWNLOAD PLUS DOES NOT SUPPORT THE MULTIPLE DATA SET REQUESTS. MULTIPLE DATA SET SUPPORT IS NOT USED.

Explanation: Multiple data set support was requested by setting the `dataset-grouping` parameter to YES in the AFPPARMS DD statement data set for this FSA. However, the remote system attached to AFP Download Plus does not support the multiple data set requests necessary for multiple data set mode.

System action: AFP Download Plus does not use multiple data set mode for this FSA.

User response: No response is necessary.

System programmer response: If multiple data set support is not required for this FSA, set the `dataset-grouping` parameter to NO. If multiple data set support is required for this FSA, find a remote system that supports multiple data set requests.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 23, 32

APS8222I AFP DOWNLOAD PLUS ATTEMPTED TO CANCEL A DATA SET AT THE REMOTE SYSTEM, BUT THE REMOTE SYSTEM DOES NOT SUPPORT THE CANCEL DATA SET REQUEST. AFP DOWNLOAD PLUS CONTINUES WITHOUT CANCELLING THE DATA SET.

Explanation: AFP Download Plus attempted to cancel a data set on the remote system, but the remote system does not support the cancel data set request.

System action: AFP Download Plus continues processing.

User response: No response is necessary.

System programmer response: If AFP Download Plus needs to cancel a data set at the remote system, use a remote system that supports the cancel data set request. Orphaned files could be left on the remote system and must be manually cleaned up. Contact the person responsible for the remote system to clean these files up.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 23

APS8223I AFP DOWNLOAD PLUS ESTABLISHED A CONNECTION WITH THE REMOTE SYSTEM. FSA = *fsa*. **IPADDR =** *ip-address*. **PORT NUMBER =** *port number*. **REMOTE SYSTEM =** *product name*. **REMOTE SYSTEM OPERATING SYSTEM =** *operating system*. **REMOTE SYSTEM VERSION =** *version*. **REMOTE SYSTEM COMPILE DATE =** *compile date*.

Explanation: AFP Download Plus established a connection with the remote system where:
- FSA is the functional subsystem address, for example, PRT660.
- IPADDR specifies the Internet Protocol (IP) address of the TCP/IP-attached remote system.
- PORT NUMBER specifies the port number of the TCP/IP-attached remote system.
- REMOTE SYSTEM is the product name of the remote system, for example, InfoPrint Manager. The default is UNKNOWN.

- REMOTE SYSTEM OPERATING SYSTEM is the operating system of the remote system, for example, Microsoft Windows XP (Version 5.1.2600). The default is UNKNOWN.
- REMOTE SYSTEM VERSION is the version of the remote system, for example, 3.0. The default is UNKNOWN.
- REMOTE SYSTEM COMPILE DATE is the compile date of the remote system, for example, May 11 2006. The default is UNKNOWN.

System action: AFP Download Plus continues processing.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: Ensure that the correct remote system was started.

Problem determination: None.

APS8225I AN UNKNOWN COMMAND CODE WAS RECEIVED IN THE RESPONSE FROM THE REMOTE SYSTEM TO THE QUERY SUPPORTED COMMAND REQUEST SENT BY AFP DOWNLOAD PLUS. COMMAND CODE = *command code*.

Explanation: AFP Download Plus received an unknown command code in the response from the remote system to the Query Supported Command request.

System action: The AFP Download Plus FSA stops with a completion code 024 and abend reason code 03E2.

User response: No response is necessary.

System programmer response: This message could indicate a possible logic error with the remote system. If the problem persists, contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8226I A NEGATIVE RESPONSE WAS RECEIVED FROM THE REMOTE SYSTEM TO THE QUERY SUPPORTED COMMAND REQUEST SENT BY AFP DOWNLOAD PLUS.

Explanation: AFP Download Plus expected to receive a positive response, but received a negative response from the remote system in reply to the Query Supported Command request.

System action: The AFP Download Plus FSA stops with a completion code 024 and abend reason code 03F1.

User response: No response is necessary.

System programmer response: This message could indicate a possible logic error with the remote system. If the problem persists, contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8227I   THE REMOTE SYSTEM DOES NOT SUPPORT CHECKPOINTS. AFP DOWNLOAD PLUS CONTINUES TO SEND DATA SETS TO THE REMOTE SYSTEM WITHOUT CHECKPOINTS.

Explanation: AFP Download Plus was using checkpoints. However, because the remote system does not support checkpoints, AFP Download Plus is sending data sets without checkpoints.

System action: AFP Download Plus continues and will send all jobs to the remote system without checkpoints.

User response: No response is necessary.

System programmer response: To use checkpoints, send data sets to a remote system that supports checkpoints.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 23.

APS8228I   THE FOUR BYTE END OF FILE REQUEST IS NOT SUPPORTED BY THE REMOTE SYSTEM.

Explanation: The remote system does not support the four-byte end-of-file request as required by the download protocol.

System action: The AFP Download Plus FSA stops with a completion code 024 and abend reason code 03F2.

User response: No response is necessary.

System programmer response: This message could indicate a possible logic error with the remote system. If the problem persists, contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8229I   THE QUERY SUPPORTED COMMAND REQUEST IS NOT SUPPORTED BY THE REMOTE SYSTEM.

Explanation: The remote system does not support the Query Supported Command request as required by the download protocol.

System action: The AFP Download Plus FSA stops with a completion code 024 and abend reason code 03F3.

User response: No response is necessary.

System programmer response: This message could indicate a possible logic error with the remote system. If the problem persists, contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8230I   ONE OF THE MULTIPLE DATA SET REQUESTS IS SUPPORTED BY THE REMOTE SYSTEM AND THE OTHER MULTIPLE DATA SET REQUEST IS NOT SUPPORTED BY THE REMOTE SYSTEM.

Explanation: The remote system only supports one of the two multiple data set requests. The download protocol requires that either both requests be supported or both requests not be supported.

System action: The AFP Download Plus FSA stops with a completion code 024 and abend reason code 03F4.

User response: No response is necessary.

System programmer response: This message could indicate a possible logic error with the remote system. If the problem persists, contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8231I   ONE OF THE COMPRESSION REQUESTS IS SUPPORTED BY THE REMOTE SYSTEM AND THE OTHER COMPRESSION REQUEST IS NOT SUPPORTED BY THE REMOTE SYSTEM.

Explanation: There are two compression requests, the Start LZW Compression request and the End Compression request. The protocol requires that either both requests must be supported or both requests must not be supported.

System action: AFP Download Plus FSA stops with a completion code 024 and abend reason code 03F5.

User response: No response is necessary.

System programmer response: This message could indicate a possible logic error with the remote system. If the problem persists, contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

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| **Problem determination:** Items 1, 9, 17.

| **APS8232I** A PROCESSING ACKNOWLEDGEMENT
| WAS RECEIVED FROM THE REMOTE
| SYSTEM, BUT THE REMOTE SYSTEM
| DOES NOT SUPPORT PROCESSING
| ACKNOWLEDGEMENTS.

| **Explanation:** The remote system sent a processing
| acknowledgement to AFP Download Plus; however, the
| remote system does not support processing
| acknowledgements.

| **System action:** The AFP Download Plus FSA stops
| with a completion code 024 and abend reason code
| 03F6.

| **User response:** No response is necessary.

| **System programmer response:** This message could
| indicate a possible logic error with the remote system. If
| the problem persists, contact your remote system
| service representative for assistance.

| **Operator Response:** Notify your system programmer.

| **Problem determination:** Items 1, 9, 17.

| **APS8233I** A NEGATIVE RESPONSE WAS
| RECEIVED FROM THE REMOTE
| SYSTEM IN REPLY TO ONE OF THE
| MULTIPLE DATA SET REQUESTS SENT
| BY AFP DOWNLOAD PLUS.

| **Explanation:** AFP Download Plus expected to receive
| a positive response, but received a negative response
| from the remote system in reply to one of the multiple
| data set requests sent by AFP Download Plus.

| **System action:** The AFP Download Plus FSA stops
| with a completion code 024 and abend reason code
| 03D0 or 03F8.

| **User response:** No response is necessary.

| **System programmer response:** This message could
| indicate a possible logic error in AFP Download Plus or
| the remote system. If the problem persists, contact your
| remote system service representative, contact your
| service representative in the IBM Support Center, or use
| your electronic link with IBM service for assistance.

| **Operator Response:** Notify your system programmer.

| **Problem determination:** Items 1, 9, 17.

| **APS8234I** A DECOMPRESSION ERROR
| OCCURRED WHILE THE REMOTE
| SYSTEM WAS ATTEMPTING TO
| DECOMPRESS A DATA SET SENT BY
| AFP DOWNLOAD PLUS.

| **Explanation:** AFP Download Plus sent an End
| Compression request and received a negative response

| due to a decompression error occurring at the remote
| system.

| **System action:** Depending on the error at the remote
| system, one of these occurs:
| • AFP Download Plus attempts to resend the data set
| from the previous checkpoint. If there is no previous
| checkpoint, it resends the data set from the
| beginning.
| • AFP Download Plus attempts to resend the data set
| from the beginning.
| • AFP Download Plus stops processing the data set,
| releases it back to JES, and requests that the data
| set be held by the system.
| • The AFP Download Plus FSA stops with a completion
| code 024 and abend reason code 03D1.

| **User response:** No response is necessary.

| **System programmer response:** This message could
| indicate a possible logic error in AFP Download Plus or
| the remote system. If the problem persists, contact your
| remote system service representative, contact your
| service representative in the IBM Support Center, or use
| your electronic link with IBM service for assistance.

| **Operator Response:** Notify your system programmer.

| **Problem determination:** Items 1, 2, 17, 19.

| **APS8235I** THE REMOTE SYSTEM DOES NOT
| SUPPORT THE EIGHT BYTE
| CHECKPOINT REQUEST, BUT
| CHECKPOINTING IS ACTIVE AND THE
| DATA SET REQUIRES EIGHT BYTE
| CHECKPOINTING.

| **Explanation:** AFP Download Plus needed to send the
| eight-byte checkpoint request to the remote system due
| to the size of the data set. However, the remote system
| does not support the eight-byte checkpoint request.

| **System action:** The AFP Download Plus FSA stops
| with a completion code 024 and abend reason code
| 03FD.

| **User response:** Do not send data sets that are larger
| than 4 gigabytes (GB). Data sets that are larger than 4
| GB require the use of the eight-byte checkpoint request.

| **System programmer response:** If data sets that are
| larger than 4 GB are required, use a remote system that
| supports eight-byte checkpoint requests.

| **Operator Response:** Notify your system programmer.

| **Problem determination:** Items 1, 9, 17.

| **APS8236I** THE REMOTE SYSTEM DOES NOT
| SUPPORT THE EIGHT BYTE END OF
| FILE REQUEST, BUT THE DATA SET
| REQUIRES THE EIGHT BYTE END OF
| FILE REQUEST.

| **Explanation:** AFP Download Plus needed to send the

eight-byte end-of-file request to the remote system due to the size of the data set. However the remote system does not support the eight-byte end-of-file request.

System action: The AFP Download Plus FSA stops with a completion code 024 and abend reason code 03FE.

User response: Do not send data sets that are larger than 4 gigabytes (GB). Data sets that are larger than 4 GB require the use of the eight-byte end-of-file request.

System programmer response: If data sets that are larger than 4 GB are required, use a remote system that supports eight-byte end-of-file requests.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8237I   THE REMOTE SYSTEM IS BUSY PROCESSING THE DATA IT RECEIVED FROM AFP DOWNLOAD PLUS.

Explanation: The remote system is busy processing the data it received from AFP Download Plus. The remote system will reply to the data when it is finished processing.

System action: AFP Download Plus stops processing. When the remote system replies to the data, this message is deleted and AFP Download Plus continues processing.

User response: No response is necessary.

System programmer response: When this message displays on the console, it indicates that the remote system is busy processing the data from AFP Download Plus. If this becomes a problem, then contact the person responsible for the remote system to determine if this is the normal operating procedure.

Operator Response: Notify your system programmer if this becomes a problem.

Problem determination: Items 1, 23.

APS8238I   AFP DOWNLOAD PLUS ATTEMPTED TO CANCEL A JOB AT THE REMOTE SYSTEM, BUT THE REMOTE SYSTEM DOES NOT SUPPORT THE CANCEL DATA SET AND JOB REQUEST.

Explanation: AFP Download Plus has encountered a situation where it needs to cancel the data set and job on the remote system; however, the remote system does not support the cancel data set and job request.

System action: AFP Download Plus continues processing.

User response: No response is necessary.

System programmer response: If AFP Download Plus needs to cancel a job on the remote system, use a remote system that supports the cancel data set and job

request. Orphaned files could be left on the remote system and must be manually cleaned up. Contact the person responsible for the remote system to clean these files up.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 23.

APS8239I   AFP DOWNLOAD PLUS WAS NOT SUCCESSFUL IN PROCESSING THE DATA SET. THE SPECIFIC MESSAGES FOR THE FAILURE ARE IN THE MESSAGE FILE ON THE AFP DOWNLOAD PLUS SYSTEM.

Explanation: While transforming a data set in multiple data set mode (the `dataset-grouping` parameter set to YES in the AFPPARMS DD statement data set for this FSA), AFP Download Plus encountered an error that stopped processing of a data set in a multiple data set job.

System action: The system action is determined by the transform errors that occur.

User response: Correct the transform errors and then resubmit the job.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Item 1.

APS8240I   COMPRESSION WAS REQUESTED FOR THIS DATA SET, BUT THE REMOTE SYSTEM CONNECTED TO AFP DOWNLOAD PLUS DOES NOT SUPPORT COMPRESSION. COMPRESSION IS DEACTIVATED.

Explanation: Compression was requested on the AFPPARMS data set specified on the OUTPUT statement, but compression is not supported by the remote system connected to AFP Download Plus.

System action: AFP Download Plus deactivates compression, processes the data set without compressing the data, and sends the data set to the remote system.

User response: If you want to compress the data set, connect AFP Download Plus to a remote system that supports compression. If you do not want to compress the data set, ignore this message or remove the `compression` parameter from the AFPPARMS data set.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8241I THE ERROR CODE RECEIVED IN THE RESPONSE FROM THE REMOTE SYSTEM = *error code - error code description*.

Explanation: AFP Download Plus received a negative response from the remote system with an error code describing the error that occurred at the remote system. These error codes and error code descriptions are supported:

0 Success
1 No information provided
2 Checkpoint file not found
3 Checkpoint restart point not found
4 Delta byte count mismatch
5 Script/exit failure
6 Decompression failure
7 Unrecognized MDS ID
8 No MDS IDs available
9 System error
10 Start compression or EOF request received while compression is active
11 Download protocol violation
xx Unrecognized error code

System action: AFP Download Plus continues processing.

User response: No response is necessary.

System programmer response: The accompanying error messages describe the problem in more detail and indicate if you should take any action.

Operator Response: Notify your system programmer.

Problem determination: None.

APS8242I THE FOLLOWING MESSAGE WAS ISSUED BY THE REMOTE SYSTEM. IPADDR = *ip-address*. PORT NUMBER = *port number*.

Explanation: This message indicates that a problem has occurred at the remote system. Message APS8243I is issued after this message and contains the error message from the remote system. *ip-address* specifies the IP address of the TCP/IP-attached remote system. *port number* specifies the port number of the TCP/IP-attached remote system.

System action: AFP Download Plus continues processing.

User response: No response is necessary.

System programmer response: The accompanying error messages describe the problem in more detail and indicate if you should take any action.

Operator Response: Notify your system programmer.

Problem determination: None.

APS8243I *message text*

Explanation: This message describes the problem that occurred at the remote system.

System action: AFP Download Plus continues processing.

User response: No response is necessary.

System programmer response: Perform the action that is indicated in the message.

Operator Response: Notify your system programmer.

Problem determination: None.

APS8244I A NEGATIVE RESPONSE WAS RECEIVED FROM THE REMOTE SYSTEM TO THE CHECKPOINT RESTART HEADER SENT BY AFP DOWNLOAD PLUS.

Explanation: AFP Download Plus expected to receive a positive response from the remote system in reply to the checkpoint restart header request, but instead received a negative response.

System action: The AFP Download Plus FSA stops with a completion code of 024 and abend reason code 03D4.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8245I A NEGATIVE RESPONSE WAS RECEIVED FROM THE REMOTE SYSTEM TO THE CHECKPOINT RESTART BYTE COUNT SENT BY AFP DOWNLOAD PLUS.

Explanation: AFP Download Plus expected to receive a positive response from the remote system in reply to the checkpoint restart byte count, but instead received a negative response.

System action: The AFP Download Plus FSA stops with a completion code of 024 and abend reason code 03D5.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8246I THE REMOTE SYSTEM DOES NOT WANT THE CURRENT DATA SET TO BE TRIED AGAIN, BUT WILL STAY ACTIVE WAITING FOR ANOTHER DATA SET TO BE SENT.

Explanation: The remote system has sent a negative response indicating that it does not want this data set to be tried again, but it will stay active so another data set can be sent.

System action: AFP Download Plus stops processing the data set, releases it back to JES, and requests that the data set be held by the system.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error with the remote system or with AFP Download Plus. Other messages might be issued that have more details about the problem.

If the problem persists, contact your remote system service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17, 19.

APS8247I A RECOVERY INDICATOR THAT WAS NOT SUPPORTED WAS RECEIVED FROM THE REMOTE SYSTEM IN THE EXTENDED RECEIVER INFORMATION RESPONSE.

Explanation: AFP Download Plus received a negative response from the remote system with a recovery indicator that is not supported.

System action: The AFP Download Plus FSA stops with a completion code of 024 and abend reason code 03D7.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8248I AN UNKNOWN RESPONSE *response* **WAS RECEIVED FROM THE REMOTE SYSTEM.**

Explanation: AFP Download Plus received an unknown response from the remote system. AFP Download Plus expected a response, but it did not recognize the response that was received.

System action: The AFP Download Plus FSA stops

with a completion code of 024 and abend reason code 03D8.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8249I A RESPONSE *response* **WAS RECEIVED FROM THE REMOTE SYSTEM THAT DID NOT SUPPORT ENCODING OF THE DATA WHEN ENCODING OF THE DATA WAS ACTIVE.**

Explanation: Data encoding was active; however, AFP Download Plus received a response from the remote system that did not support encoding of the data.

System action: The AFP Download Plus FSA stops with a completion code of 024 and abend reason code 03D9.

User response: No response is necessary.

System programmer response: This message indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

Operator Response: Notify your system programmer.

Problem determination: Items 1, 9, 17.

APS8500I NO GRID OR RRID INFORMATION IS AVAILABLE FOR MEMBER *member name*. **RESOURCE IS NOT ENABLED FOR CAPTURE.**

Explanation: No value was specified for RRID on the APSRMARK control statement, and no corresponding GRID components were present inside the font.

System action: This resource is marked public by PSF, but is not enabled for resource capture by the printer.

User response: Correct the control statement syntax by specifying a valid RRID value and resubmit the request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the GRID components of a font.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

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APS8501I MEMBER *member name* **HAS AN EXISTING X'63' TYPE 2 TRIPLET. THE RRID INFORMATION WAS NOT REPLACED IN THIS TRIPLET.**

Explanation: A X'63' type 2 font resource management triplet was found in the Begin structured field for the specified member. If this resource was already marked with a valid RRID, it is enabled for resident resource activation and resource capture. Because no RRID value was specified on the APSRMARK control statement, the existing X'63' type 2 triplet was updated with new date and time values, but the engineering change information was kept the same. The first time this resource is used, it is downloaded so that the printer can capture it.

System action: This resource is marked by PSF and is enabled for resident resource activation and for printer capture if a valid RRID was already present in the X'63' type 2 triplet.

User response: If the resource is not captured by the printer, correct the control statement syntax by specifying a valid RRID value and resubmit the request. Refer to *Data Stream and Object Content Architectures: Font Object Content Architecture Reference* for more information about the X'63' type 2 font resource management triplet.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: Items 2, 17.

APS8550I FILE *filename* **COULD NOT BE CREATED. RETURN CODE (***return code***).**

Explanation: AFP Download Plus failed to create the specified file.

System action: For the system action taken, see the other messages associated with this error.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the problem in response to the system return code identified in this message. Possible return codes are:

Return Code	Explanation
10	The file name address is not valid.
15	Part of the full name is not a directory.
20	The path name address is not valid.
30	The file name is too short.
40	The file name or path name is too long.
50	The path name is too short.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS8551I FILE *filename* **COULD NOT BE OPENED. RETURN CODE (***return code***). REASON CODE (***reason code***). PATHNAME=***pathname***.**

Explanation: The BPX1OPN system function macro failed to open the specified file. After returning from the BPX1OPN macro, register 15 contained a nonzero return code.

Common return codes associated with this message are:

111	Permission has been denied to access the file or directory.
129	The file or directory you are trying to access does not exist.
133	The UNIX file system is out of storage.

System action: For the system action taken, see the other messages associated with this error.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the problem in response to the system return code identified in this message. The return code is from the system function that was used. Refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference* to interpret the return code.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS8552I THE CHANGING OF OWNERSHIP FOR THE *directory name* **DIRECTORY HAS FAILED WITH RETURN CODE(***return code***) AND REASON CODE(***reason code***).**

Explanation: The BPX1CHO system function macro failed to change the ownership of the specified directory. After returning from the BPX1CHO macro, register 15 contained a nonzero return code.

Common return codes associated with this message are:

111	Permission has been denied to access the file or directory.
129	The file or directory you are trying to access does not exist.
133	The UNIX file system is out of storage.

System action: None.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the problem in response to the system return code identified in this message. The return code is from the system function that was used. Refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference* to interpret the return code.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS8553I **THE CHANGING OF OWNERSHIP FOR THE** *directory name* **DIRECTORY HAS FAILED. BPX1GPN FAILED WITH RETURN CODE(***return code***) AND REASON CODE(***reason code***).**

Explanation: The BPX1GPN system function macro failed to change the ownership of the specified directory. After returning from the BPX1GPN macro, register 15 contained a nonzero return code.

Common return codes associated with this message are:

111 Permission has been denied to access the file or directory.

129 The file or directory you are trying to access does not exist.

133 The UNIX file system is out of storage.

System action: None.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the problem in response to the system return code identified in this message. The return code is from the system function that was used. Refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference* to interpret the return code.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS8554I **THE CHANGING OF OWNERSHIP FOR THE** *file name* **FILE HAS FAILED. BPX1GPN FAILED WITH RETURN CODE(***return code***) AND REASON CODE(***reason code***).**

Explanation: The BPX1GPN system function macro failed to change the ownership of the specified file. After returning from the BPX1GPN macro, register 15 contained a nonzero return code.

Common return codes associated with this message are:

111 Permission has been denied to access the file or directory.

129 The file or directory you are trying to access does not exist.

133 The UNIX file system is out of storage.

System action: None.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the problem in response to the system return code identified in this message. The return code is from the system function that was used. Refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference* to interpret the return code.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS8555I **THE CHANGING OF OWNERSHIP FOR THE** *file name* **FILE HAS FAILED WITH RETURN CODE(***return code***) AND REASON CODE(***reason code***).**

Explanation: The BPX1CHO system function macro failed to change the ownership of the specified file. After returning from the BPX1CHO macro, register 15 contained a nonzero return code.

Common return codes associated with this message are:

111 Permission has been denied to access the file or directory.

129 The file or directory you are trying to access does not exist.

133 The UNIX file system is out of storage.

System action: None.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the problem in response to the system return code identified in this message. The return code is from the system function that was used. Refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference* to interpret the return code.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

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APS8556I   FILE *filename* **COULD NOT BE CLOSED. RETURN CODE (***return code***). REASON CODE (***reason code***). PATHNAME=***pathname***.**

Explanation: The BPX1CLO system function macro failed to close the specified file. After returning from the BPX1CLO macro, register 15 contained a nonzero return code.

Common return codes associated with this message are:

111   Permission has been denied to access the file or directory.

129   The file or directory you are trying to access does not exist.

133   The UNIX file system is out of storage.

System action: For the system action taken, see the other messages associated with this error.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the problem in response to the system return code identified in this message. The return code is from the system function that was used. Refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference* to interpret the return code.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS8558I   FILE *filename* **COULD NOT BE WRITTEN. RETURN CODE (***return code***). REASON CODE (***reason code***). PATHNAME=***pathname***.**

Explanation: The BPX1WRT system function macro failed to write to the specified file. After returning from the BPX1WRT macro, register 15 contained a nonzero return code.

Common return codes associated with this message are:

111   Permission has been denied to access the file or directory.

129   The file or directory you are trying to access does not exist.

133   The UNIX file system is out of storage.

System action: For the system action taken, see the other messages associated with this error.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the problem in response to the system return code identified in this

message. The return code is from the system function that was used. Refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference* to interpret the return code.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS8559I   *jobname*, *jobid*, *stepname*, *ddname*, {, **TRANSFORMED BYTES=***bytes* **{KB | MB | GB}. | TRANSFORMED BYTES=***nnnnnnn* **{KB | MB | GB}, TRANSMITTED=***ppp* **%. | TRANSFORMED BYTES=***nnnnnnn* **{KB | MB | GB}, COMPRESSED BYTES=***ccccccc* **{KB | MB | GB}, TRANSMITTED=***ppp* **%.**

Explanation: This message is displayed in response to the DISPLAY STATUS=AFPDP operator command. Depending on the information you requested with that command, it can display the number of bytes that AFP Download Plus has transformed to MO:DCA-P format, the percentage of the total number of bytes in the job that AFP Download Plus has transmitted to the receiving system, or both. This message also shows the number of compressed bytes when compression is activated for the FSA or data set.

System action: None.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8560I   **AFP DOWNLOAD PLUS PRINT REQUEST CANCELED FOR JOB=** *jobname* **STEP=** *jobstep* **ID=** *jobid* **AT** *system-id*. **INFORMATIONAL MESSAGES ARE LOCATED IN FILE:** *filename*.

Explanation: Processing of the print request has been canceled. If the job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request, the message is sent to those user IDs. Otherwise, this message is sent to the job submitter. This message is also recorded in the system log.

System action: AFP Download Plus continues processing with the next print request.

User response: Examine the messages in *filename* to determine why the print request was canceled.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8562I   **AFP DOWNLOAD PLUS HAS SUCCESSFULLY COMPLETED PROCESSING FOR JOB=** *jobname* **STEP=** *jobstep* **ID=** *jobid* **AT** *system-id*. **INFORMATIONAL MESSAGES ARE LOCATED IN FILE:** *filename*.

Explanation: Processing of the print request has completed successfully. If the job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request, the message is sent to those user IDs. Otherwise, this message is sent to the job submitter. This message is also recorded in the system log.

System action: The job is transmitted to the receiver. AFP Download Plus continues processing with the next print request.

User response: Examine the messages in *filename* for more information.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8563I   **AFP DOWNLOAD PLUS STOPPED PROCESSING THE PRINT DATA SET DUE TO ERRORS: JOB=** *jobname* **STEP=** *jobstep* **ID=** *jobid* **AT** *system-id*. **ERROR EXPLANATIONS ARE LOCATED IN FILE:** *filename*.

Explanation: Processing of the print request has ended unsuccessfully. If the job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request, the message is sent to those user IDs. Otherwise, this message is sent to the job submitter. This message is also recorded in the system log.

System action: The job is not transmitted to the receiver. AFP Download Plus continues processing with the next print request.

User response: Examine the messages in *filename* for more information. Correct the errors and resubmit the print job.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8564I   **AFP DOWNLOAD PLUS HAS SUCCESSFULLY COMPLETED PROCESSING FOR JOB=** *jobname* **STEP=** *jobstep* **ID=** *jobid* **AT** *system-id*.

Explanation: Processing of the print request has completed successfully. The job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request. This message is also recorded in the system log.

System action: AFP Download Plus continues processing with the next print request.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8565I   **COULD NOT CREATE THE AFP DOWNLOAD PLUS** *directory name* **DIRECTORY. BPX1MKD FAILED WITH RETURN CODE =** *return code* **AND REASON CODE =** *reason code*.

Explanation: The BPX1MKD system function macro failed to create the specified file. After returning from the BPX1MKD macro, register 15 contained a nonzero return code.

Common return codes associated with this message are:

111   Permission has been denied to access the file or directory.

129   The file or directory you are trying to access does not exist.

133   The UNIX file system is out of storage.

System action: For the system action taken, see the other messages associated with this error.

User response: Inform your system programmer that this error occurred.

System programmer response: Correct the problem in response to the system return code identified in this message. The return code is from the system function that was used. Refer to *z/OS UNIX System Services Programming: Assembler Callable Services Reference* to interpret the return code.

Operator Response: Inform your system programmer that this error occurred.

Problem determination: Items 1, 4, 9, 17, 19.

APS8566I   AFP DOWNLOAD PLUS PRINT REQUEST INTERRUPTED FOR JOB= *jobname* **STEP=** *jobstep* **ID=** *jobid* **AT** *system-id*. **INFORMATIONAL MESSAGES ARE LOCATED IN FILE:** *filename*.

Explanation: Processing of the print request identified in the message has been interrupted by the operator. If the job submitter specified that this message should be sent to the user IDs specified in the NOTIFY keyword in the JCL for the print request, the message is sent to those user IDs. Otherwise, this message is sent to the job submitter. This message is also recorded in the system log.

System action: The print request is returned to JES and can be restarted by the operator.

User response: Examine the messages in *filename* for more information.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APS8600I   THE ASSOCIATED DATA SET WAS PROCESSED BY *afpdp_version* **ON** *printer*, **DESTINED FOR IPADDR=**ip_address, **PORT=**port_number.

Explanation: This message identifies the version of AFP Download Plus that processed this data set and indicates the printer where the data set was sent. The IP address and port number identify the selected receiver for processing the data set associated with the specified AFP Download Plus version and printer name.

System action: This message is issued only if other messages are issued for the data set, and if the PIMSG parameter is set to YES either in the JCL for the print job or in the AFP Download Plus startup procedure.

User response: No response is necessary.

System programmer response: No response is necessary.

Operator Response: No response is necessary.

Problem determination: None.

APSH0001   Usage: apshhsub Fname JCLOpts Queue '' '' Port Xparms

Explanation: You invoked the **apshhsub** exit with the **-?** command option.

System action: None.

User response: None.

APSH0002   The command option —option **is not valid.**

Explanation: You issued the **apshhsub** exit and included a command option that is not valid.

System action: The command ends without processing.

User response: Review the command syntax and issue the command again.

APSH0003   One or more required parameters are missing.

Explanation: One or more required parameters are missing in the **apshhsub** exit.

System action: The command ends without processing.

User response: Review the command syntax and issue the command again.

APSH0004   -option **value '**text**' is not valid.**

Explanation: You issued the **apshhsub** exit with a command option that was not in the correct format. For example, it specified an alphabetic value when a numeric value was required.

System action: The command ends without processing.

User response: Review the command syntax and issue the command again.

APSH0005   Unable to allocate storage (error errno**). ...**system-explanation

Explanation: The **apshhsub** exit could not allocate the required storage. The message provides additional information on why the storage allocation attempt failed.

System action: The command stops processing.

User response: Use the information in the message to correct the problem and issue the command again.

APSH0006   An error occurred while opening file-name **(error** errno**). ...**system-explanation

Explanation: The **apshhsub** exit could not open the specified file. The message provides additional information on why the storage allocation attempt failed.

System action: The command stops processing.

User response: Use the information in the message to correct the problem and issue the command again.

APSH0007 *time-stamp* **— submit started.**

Explanation: The **apshhsub** exit issues this message when it begins processing data that has been received by **apshhrcd**. The message shows when the process began.

System action: The **apshhsub** exit begins processing the data.

User response: None.

APSH0008 *time-stamp* **— submit ended (rc** *return-code***).**

Explanation: The **apshhsub** exit issues this message when it completes processing data that has been received by **apshhrcd**. The message shows when the process was complete. It also shows the overall return code from the process.

System action: The **apshhsub** exit ends.

User response: None.

APSH0009

> **Parameters:**
> **Input file:** '*file-name*'
> **Options:** '*sender-options*'
> **Queue:** '*apshhrcd-q-value*'
> **Port:** '*apshhrcd-p-value*'
> **Extra arguments:** '*apshhrcd-X-value*'
> **Trace:** '*1-or-0*'

Explanation: The **apshhsub** exit issues this message when it begins processing data that has been received by **apshhrcd**. This message shows the parameters that were passed to **apshhsub** from **apshhrcd**.

System action: The **apshhsub** exit begins processing the data.

User response: None.

APSH0010 Option '*name*' **is not valid.**

Explanation: The **apshhsub** exit encountered an option that it did not recognize.

System action: The **apshhsub** exit stops processing.

User response: If the option is from a sender (AFP Download Plus or Download for z/OS), report the problem to IBM. If the option is from an attribute mapping file, correct the attribute mapping file and issue the exit again.

APSH0011 **Options mapped from** *file-name***:**

Explanation: The **apshhsub** exit is mapping options from an attribute mapping file. This message shows the name of the file. It is followed by one or more instances of message APSH0012.

User response: None.

APSH0012 **Line number:** '*options-from-file*'

Explanation: The **apshhsub** exit is mapping options from an attribute mapping file. This message shows the options from the file that apply to the current job.

System action: The **apshhsub** exit continues processing.

User response: None.

APSH0013 **An error occurred while reading** *file-name* **(error** *errno***).** **...***system-explanation*

Explanation: The **apshhsub** exit could not read the specified file. The message provides additional information on why the storage allocation attempt failed.

System action: The command stops processing.

User response: Use the information in the message to correct the problem and issue the command again.

APSH0014 **An error occurred while activating the output descriptor. ...return code =** *return-code***, reason code =** *reason-code***, parameter =** *text-unit***.**

Explanation: The **apshhsub** exit attempted to create an output descriptor to assign attributes to the SYSOUT data set using text units. One of the text units is in error. The return code and reason code are from the OUTADD macro.

System action: The **apshhsub** exit stops processing

User response: Review the option value that corresponds to the text unit reported in the message. If the option is from a sender (AFP Download Plus or Download for z/OS), report the problem to IBM. If the option is from an attribute mapping file, correct the attribute mapping file and issue the exit again.

APSH0015 **An error occurred while trying to create the SYSOUT data set.**

Explanation: The **apshhsub** exit could not create a SYSOUT data set. This message is followed by another message that provides more detail about the problem.

System action: The **apshhsub** exit stops processing

User response: Use the information in the next message issued to correct the problem and issue the exit again.

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APSH0016　An error occurred while trying to open the SYSOUT data set.

Explanation: The **apshhsub** exit could not open a SYSOUT data set. This message is followed by another message that provides more detail about the problem.

System action: The **apshhsub** exit stops processing

User response: Use the information in the next message issued to correct the problem and issue the exit again.

APSH0017　An error occurred while trying to write the SYSOUT data set.

Explanation: The **apshhsub** exit could not write to a SYSOUT data set. This message is followed by another message that provides more detail about the problem.

System action: The **apshhsub** exit stops processing

User response: Use the information in the next message issued to correct the problem and issue the exit again.

APSH0018　The input data is not complete.

Explanation: The **apshhsub** exit is copying records from the input data file to the SYSOUT data set. The last record in the input data file is not complete. It contains a length field that indicates that more data should exist after the end of the file.

System action: The **apshhsub** exit stops processing

User response: If the sender is AFP Download Plus, report the problem to IBM. If the sender is Download for z/OS, ensure that SEND_REC_LENGTH=YES is specified in the routing control data set entry for this receiver. If SEND_REC_LENGTH=YES is specified, report the problem to IBM.

APSH0019　The data set was spooled to SYSOUT:

> **Bytes=**_byte_count_ (_rounded_count_)
> **Records=**_record_count_ (_rounded_count_)
> **Pages=**_page_count_ (_rounded_count_)

Explanation: The **apshhsub** exit has completed writing the SYSOUT data set. This message reports the total number of bytes, records, and pages in that data set. For larger numbers, the message also reports the counts rounded up to the nearest kilobytes (KBs), megabytes (MBs), or gigabytes (GBs).

The number of bytes is an exact count of the bytes that comprise the data. This number can differ from the number of bytes that is reported by JES for the same job. JES includes in its byte count those bytes that it uses for its own internal functions.

The number of records is an exact count of the records that comprise the data.

The number of pages is based on the content of the data. For MO:DCA-P documents, **apshhsub** counts the number of BPG structured fields. For other documents, **apshhsub** analyzes the skip-to-channel-1 carriage controls within the data stream.

System action: The **apshhsub** exit continues processing.

User response: None.

APSH0020　The final disposition is HOLD.

Explanation: The **apshhsub** exit has completed writing the SYSOUT data set. This message reports that the SYSOUT data set has been placed in the held queue.

System action: The **apshhsub** exit continues processing.

User response: None.

APSH0021　The final disposition is NORMAL.

Explanation: The **apshhsub** exit has completed writing the SYSOUT data set. This message reports that the SYSOUT data set has not been held or deleted.

System action: The **apshhsub** exit continues processing.

User response: None.

APSH0022　The final disposition is DELETE.

Explanation: The **apshhsub** exit has completed writing the SYSOUT data set. This message reports that the SYSOUT data set has been deleted.

System action: The **apshhsub** exit continues processing.

User response: None.

APSH0049　**_timestamp_ - submit started.**

Explanation: The **apshhmds** exit issues this message when it begins processing data that has been received by **apshhrcd**. The message shows when the process started.

System action: The **apshhmds** exit begins processing the data.

User response: None.

APSH0050　Not all data sets in the job are afp. Either a data set in the job failed or the job was submitted through Download.

Explanation: The **apshhmds** exit requires that all data sets in a multiple data set job are MO:DCA.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0051   afpconcat failed.

Explanation: The **apshhmds** exit received a non-zero return code from the **afpconcat** program.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0052   APSHHSUB failed, see the APSHHSUB.*port*.LOG file.

Explanation: The **apshhmds** exit received a non-zero return code from the **apshhsub** exit. Refer to the **apshhsub** message file, **apshhsub.*port*.log**, for more information.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0053   There were no print files found to print.

Explanation: No print files were found in the working directory. **apshhrcd** might have had problems storing the data sets for the job.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0054   Read failed for *job name* job parameter file, the errno is *errno* and the error string is *errno string*.

Explanation: The job parameter file read failed. Use the errno value and the errno string to determine the problem.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0055   Close failed for *job name* job parameter file, the errno is *errno* and the error string is *errno string*.

Explanation: The job parameter file close failed. Use the errno value and the errno string to determine the problem.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0056   Open failed for *job name* job parameter file, the errno is *errno* and the error string is *errno string*.

Explanation: The job parameter file open failed. Use the errno value and the errno string to determine the problem.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0057   Open failed for *file name* afpconcat parameter file, the errno is *errno* and the error string is *errno string*.

Explanation: The **afpconcat** parameter file open failed. Use the errno value and the errno string to determine the problem.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0058   Write failed for *file name* afpconcat parameter file, the errno is *errno* and the error string is *errno string*.

Explanation: The **afpconcat** parameter file write failed. Use the errno value and the errno string to determine the problem.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0059   Open failed for *file name* .JCL file, the errno is *errno* and the error string is *errno string*.

Explanation: The -o options file open failed. Use the errno value and the errno string to determine the problem.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0060   Read failed for *file name* .JCL file, the errno is *errno* and the error string is *errno string*.

Explanation: The -o options file read failed. Use the errno value and the errno string to determine the problem.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

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APSH0061 Close failed for *file name* **.JCL file, the errno is** *errno* **and the error string is** *errno string***.**

Explanation: The -o options file close failed. Use the errno value and the errno string to determine the problem.

System action: The **apshhmds** exit rejects the job and no data is put on the spool.

User response: None.

APSH0062 Processing completed successfully for job *job name***.**

Explanation: The **apshhmds** exit issues this message when it successfully completes processing the data received by **apshhrcd**. The message shows when the process ended.

System action: The **apshhmds** exit ends.

User response: None.

APSH0063 Processing failed for job *job name***.**

Explanation: The **apshhmds** exit issues this message when it unsuccessfully completes processing the data received by **apshhrcd**. The message shows when the process ended. Check the **apshhmds.**port number**.log** for other messages.

System action: The **apshhmds** exit ends.

User response: None.

APSH0064 Parmlist: *parameter list*

Explanation: The **apshhmds** exit issues this message when debug=yes and logging is active (yes or error). The message shows the parameters passed to **apshhmds** from **apshhrcd**.

The paramters are:

Base: *directory*
    The directory that contains the AFP Download Plus executable files.

Parm list file: *job name***.JOB**
    The file name built by **apshhrcd** that contains the list of data set names received by **apshhrcd**.

Queue: *null*
    Always null

Port: *port number*
    The port number that **apshhrcd** is using.

-X arguments: *arguments*
    The -X arguments specified on the **apshhrcd** startup command.

Trace:
    The -t value specified on the **apshhrcd** startup command, where 1 = yes, 0 = no.

If the **apshhsub** exit is going to be issued, the message shows the **apshhsub** parameter list that **apshhmds** created just before the **apshhsub** exit is issued by **apshhmds**. See APSH0009 for the parameter definitions.

System action: The **apshhmds** exit begins processing the data.

User response: None.

Chapter 2. System Completion Codes and PSF Abend Reason Codes

Abend Processing and Restart

PSF issues messages to the operator to indicate its status during an abnormal ending (abend). When an abend occurs, PSF issues either APS050I, if it recognizes the system completion code provided by z/OS, or APS055I, if it does not recognize that code. In either case, PSF also issues APS051I, indicating that it is undergoing an abnormal ending. PSF gives additional diagnostic information on system completion codes it recognizes by listing a PSF abend reason code within the APS050I message. This chapter lists the system completion codes that PSF recognizes and describes the abend reason codes that can appear in the APS050I message.

If the abend reason code listed in the APS050I message represents a condition that can be corrected when the printer is started again, PSF automatically tries to restart, provided the operating system supports this function. On an automatic restart, PSF issues APS038I to indicate that it is attempting to restart, and subsequently issues APS057I or APS053I, depending on whether the restart was successful. For more information on the automatic abend restart function, refer to *PSF for z/OS: Diagnosis*.

If PSF determines that a dump is to be taken, it requests a dump and subsequently issues either APS042I, APS044I, or APS054I, depending on how successful it was in taking that dump.

System Completion Codes

The system completion code is used in combination with the PSF abend reason code to determine an appropriate response to the abend. PSF recognizes these system completion codes:

024 [PSF]

Explanation: The PSF FSA is stopped.

027 [PSF]

Explanation: The PSF FSS is stopped.

0A6 [PPCC]

Explanation: The Page Printer Communication Component is ended.

PSF Abend Reason Codes

The PSF abend reason code entries in this chapter provide:

Explanation
> The explanation gives more information about the condition that caused PSF to abend.

System Action
> The system action specifies whether PSF attempts to restart itself automatically, or end.

System Programmer Response
> If present, the system programmer response provides a suggested recovery action for the error condition.

Each abend reason code includes the PSF module that issued it. For a brief description of each module, refer to *PSF for z/OS: Diagnosis*.

0004

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— the ESTAE macro failed to establish the ESTAE routine.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0005

Explanation: This abend is issued by module APSPPIEP— an error accessing the Printer Inventory for FSS parameters occurred.

System action: PSF stops processing abnormally.

System programmer response: Correct the Printer Inventory error indicated by the preceding message, and restart PSF.

0008

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— the GETMAIN macro for PSF FSS-related control blocks failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

000C

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— an incorrect parameter was specified on the MVS START command.

System action: PSF processing ends abnormally.

000D

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— the GETMAIN macro for below the 16MB line PSF FSS-related control blocks failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0010

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— the FSS-level FSI CONNECT request failed. A CONNECT request failure can occur if the JES timer expires.

System action: PSF processing ends abnormally.

System programmer response: To determine other reasons for the failure, check the system log for all related JES and system messages.

0012

Explanation: This abend is issued by module APSPFCON— the parameter specifying either FSS or FSA level was not passed to the module when APSPFCON was called.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0014

Explanation: This abend is issued by module APSPPASI— an incorrect parameter was specified on the MVS START command used to start the PSF address space.

System action: PSF processing ends abnormally.

0018

Explanation: This abend is issued by module APSPPFSP— FREEMAIN for APSPPNST failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support

Center, or use your electronic link with IBM service for assistance.

0019

Explanation: This abend is issued by module APSPPFSP— GETMAIN for SAE storage failed.

System action: PSF processing ends abnormally.

System programmer response: Increase the REGION parameter for the PSF startup procedure.

001C

Explanation: This abend is issued by modules APSPPASI and APSAFSA— the ATTACH for the Notify subtask, APSPPNST, failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0020

Explanation: This abend is issued by module APSPPFSP— APSPPFSP was dispatched to process an order other than a Stop FSS or Start FSA FSS level-order.

System action: PSF processing ends abnormally.

0024

Explanation: This abend is issued by module APSPPNST— the FSI RELDS request failed. The return code is in the NCBNSTRC field in the APSPNCB control block.

System action: PSF processing ends abnormally.

0028

Explanation: This abend is issued by module APSPPNST— the FSI CHKPT request failed. The return code is in the NCBNSTRC field in the APSPNCB control block.

System action: PSF processing ends abnormally.

002C

Explanation: This abend is issued by module APSPPNST— the SMFWTM macro failed. The return code is in the NCBNSTRC field in the APSPNCB control block.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system

macros to determine why the macro failed or returned unexpected results.

0030

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— the FSS-level FSI DISCONNECT request failed.

System action: PSF processing ends abnormally.

0032

Explanation: This abend is issued by module APSPDCON— the parameter that specifies either the FSS or FSA level was not passed to the module when APSPDCON was called.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0034

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— the FREEMAIN macro for the FSS-level PSF control blocks failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0038

Explanation: This abend is issued by module APSPPIEP or APSKAFPD— the ESTAE macro to cancel the PSF address space ESTAE routine failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

003C

Explanation: This abend is issued by module APSPPDPS— the APSPPNST subtask was dispatched for ending and ended with nonzero completion code.

System action: PSF processing ends abnormally.

0044

Explanation: This abend is issued by modules APSPPDPS/APSAFSA— the DETACH macro to detach the Notify subtask (APSPPNST) failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0048

Explanation: This abend is issued by module APSPPASI— an incorrect subsystem name was provided on the MVS START command used to start the PSF address space.

System action: PSF processing ends abnormally.

004C

Explanation: This abend is issued by module APSPPNST— an incorrect APSPFSAQ control block was passed to the Notify subtask (APSPPNST).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0050

Explanation: This abend is issued by module APSPPNST— the first unprocessed stacked Page Pending Queue (PPQ) entry is not a Begin Data Set (BDS) structured field entry. For more information about the BDS structured field, refer to *Mixed Object Document Content Architecture Reference*.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0054

Explanation: This abend is issued by module APSPPFSP— IDENTIFY issued for APSPPFSA entry failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0058

Explanation: This abend is issued by module APSPPFSP— an abend occurred in the Notify subtask, APSPPNST.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

005C

Explanation: This abend is issued by module APSPPNST— an End Data Set (EDS) structured field entry was not found for a Begin Data Set (BDS) structured field stacked Page Pending Queue (PPQ) entry. For more information about the BDS and EDS structured fields, refer to *Mixed Object Document Content Architecture Reference*.

System action: PSF processing ends abnormally.

0060

Explanation: This abend is issued by module APSPPNST— the data set ID for the Begin Data Set (BDS) structured field Page Pending Queue (PPQ) entry does not match the data set ID for the corresponding End Data Set (EDS) structured field PPQ entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0064

Explanation: This abend is issued by module APSPPNST— the stack-queue locking protocol was violated. The stacked Page Pending Queue (PPQ) was acquired while APSPPNST was holding the queue in a locked state.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0068

Explanation: This abend is issued by module APSPPNST— an incorrect Page Pending Queue (PPQ) entry type was found in the stacked PPQ.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0072

Explanation: This abend is issued by module APSPPFSP— APSPPFSP DETACH APSPPNST failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0073

Explanation: This abend is issued by module APSPPFSP— APSPPFSP DETACH APSPPFSA failed, and the NODUMP option was specified.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0074

Explanation: This abend is issued by module APSPPNST— a TIME (SVC11) macro to get the time and date failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0075

Explanation: This abend is issued by module APSPPFSP— the APSPPNST subtask ended abnormally.

System action: PSF processing ends abnormally.

0076

Explanation: This abend is issued by module APSPPFSP— APSPPFSP ATTACH FSA failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0078

Explanation: This abend is issued by module APSAFSA— the IDENTIFY macro for the APSPPNST entry point failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0079

Explanation: This abend is issued by module APSPPFSP— the SDUMP macro issued an incorrect return code during the processing of the Stop FSS order with a DUMP option specified.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

007A

Explanation: This abend is issued by module APSPPFSP— a Stop FSS order with ABEND and DUMP options specified was received.

System action: PSF processing ends abnormally.

007B

Explanation: This abend is issued by module APSPPFSP— a Stop FSS order with ABEND and NODUMP options specified was received.

System action: PSF processing ends abnormally.

007F

Explanation: This abend is issued by module APSPPFSP— APSPPFSP ATTACH NST failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0080

Explanation: This abend is issued by module APSLINIT— the library access system interface (LASI) was invoked to initialize the LASI environment, but the LASI environment was already initialized. The CCBLSOCP field in the common control block (CCB) was not zero.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0081

Explanation: This abend is issued by module APSLINIT— the library access system interface (LASI) was invoked to initialize the LASI environment. However, the device control block (APSJDEVB) was not available; the CCBPJDVP field in the common control block (CCB) was zero.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0082

Explanation: This abend is issued by module APSLINIT— the library access system interface (LASI) was invoked to initialize the LASI environment. The ID for control block APSJDEVB is not valid. The ID must be JDE.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

00C0

Explanation: This abend is issued by module APSCTERM— APSCTERM encountered an error while attempting to use the PGFREE macro. An abend occurs if a nonzero return code is issued by the PGFREE macro. The PGFREE macro must be run against the Device Manager control block storage and the PCI appendage (APSCPCIA).

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

00C1

Explanation: This abend is issued by module APSCESTA— APSCESTA encountered an error while attempting to page free storage. An abend occurs if the PGFREE macro issues a nonzero return code. The PGFREE macro must be run against the Device

Manager control block storage and the PCI appendage (APSCPCIA).

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

00D2

Explanation: This abend is issued by module APSJCL— an SJF FIND request failed while locating the default output statement.

System action: PSF processing ends abnormally.

00D3

Explanation: This abend is issued by module APSJCL— an SJF FIND request failed while locating the default output statement.

System action: PSF processing ends abnormally.

00D4

Explanation: This abend is issued by module APSJCL— an SJF RETRIEVE request occurred while obtaining the keyword parameters.

System action: PSF processing ends abnormally.

00D5

Explanation: This abend is issued by module APSJCL— an incorrect matrix pointer was received as a parameter.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

00D6

Explanation: This abend is issued by module APSJCL— the SJF parameter and the matrix lengths do not match.

System action: PSF processing ends abnormally.

00D7

Explanation: This abend is issued by module APSJGSWB— a failure in an SJF GETSWB request occurred.

System action: PSF processing ends abnormally.

System programmer response: The

DIA_GETSWB_REAS field contains the incorrect reason code. This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

00D8

Explanation: This abend is issued by module APSJPI— an error obtaining FSA parameters from the Printer Inventory occurred.

System action: PSF stops processing abnormally.

System programmer response: Correct the Printer Inventory error indicated by the preceding message, and restart PSF.

00D9

Explanation: This abend is issued by module APSJCK— an error has occurred during processing of the AFPPARMS parameters specified in the startup procedure.

System action: PSF stops processing abnormally.

System programmer response: Correct the error specified by the preceding message, and restart PSF.

0100

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the GETMAIN macro for PSF FSA-related control blocks failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0102

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the GETMAIN macro for below the 16MB line PSF FSA-related control blocks failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0104

Explanation: This abend is issued by module APSPPFSA— the dynamic allocation of the device to be managed by the FSA failed.

System action: PSF processing ends abnormally.

0106

Explanation: This abend is issued by module APSPPFSA— the printer failed to initialize.

System action: PSF processing ends abnormally.

0107

Explanation: This abend is issued by module APSPPFSA— the printer failed to initialize, either because device contact is lost, or because the device is inoperative as an IPDS printer. This error is detected when PSF is obtaining initial printer information.

System action: PSF processing ends abnormally.

0108

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the FSA-level FSI CONNECT request failed.

System action: PSF processing ends abnormally.

010A

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the GETMAIN macro for the FSI area failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

010C

Explanation: This abend is issued by module APSPPFSA— the FSI SEND request failed. The SEND request was to notify the Job Entry Subsystem (JES) that FSA initialization was not successful because the device was not available.

System action: PSF processing ends abnormally.

010D

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the GETMAIN macro for above the 16MB line PSF FSA-related control blocks failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

010E

Explanation: This abend is issued by module APSPSEND— the FSI SEND request failed. The SEND request was to notify the Job Entry Subsystem (JES) of either an intervention-required or an intervention-cleared condition.

System action: PSF processing ends abnormally.

010F

Explanation: This abend is issued by module APSPPFSA or APSKFSA— FSA initialization failed during FSA restart processing.

System action: PSF processing ends abnormally.

0110

Explanation: This abend is issued by module APSPPFSA— the device was not available, and the write-to-operator message informing the operator of the situation failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0112

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the GETMAIN macro for below the 16MB line PSF FSA-related control blocks failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is

processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0114

Explanation: This abend is issued by module APSPPIFA or APSKIFA— the APSIBLD macro to initialize the record resource block (RRB) interface for Page Printing Writer Document Processor failed.

System action: PSF processing ends abnormally.

0116

Explanation: This abend is issued by module APSPPDVP or APSKDVP— the FSI Release data set request failed.

System action: PSF processing ends abnormally.

0118

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the FSI SEND request failed. The FSI SEND request was to notify the Job Entry Subsystem (JES) that the PSF FSA initialization was not successful.

System action: PSF processing ends abnormally.

011C

Explanation: This abend is issued by module APSPPFAC— module APSPPORD dispatched the APSPPFAC routine for an incorrect order.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0120

Explanation: This abend is issued by module APSPSNDR— an FSI SEND request from PSF failed. The send request was a response to an FSI order from JES.

System action: PSF processing ends abnormally.

0122

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the FREEMAIN macro for the subpool kept across restarts failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system determine why FREEMAIN failed or returned

unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0124

Explanation: This abend is issued by module APSPPGDS— the FSI GETDS request to acquire the data set failed.

System action: PSF processing ends abnormally.

0128

Explanation: This abend is issued by module APSPPDVP— the APSIBLD macro to get a data set message record resource block (RRB) failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

012C

Explanation: This abend is issued by module APSPIPER— APSPIPER sent a record to Document Processor in the APSIPUT macro for the current data set. Document Processor issued an incorrect return code. The return code is in the SABFSARC in the APSFSAB control block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0130

Explanation: This abend is issued by module APSPPDSP or APSKDSP— an FSI GETREC request failed for the reason indicated by GLRFLGS1 as given in message APS082I, which precedes this abend. This indicates a logic error in PSF or JES.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0134

Explanation: This abend is issued by module APSPPDSP or APSKDSP— an FSI FREEREC request failed. The return code is in the SABFSARC in the APSFSAB control block.

System action: PSF processing ends abnormally.

0138

Explanation: This abend is issued by module APSPPODR or APSKODR— APSPPORD or APSKODR dispatched APPSPDVP to process an incorrect order.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

013C

Explanation: This abend is issued by module APSPPODR or APSKODR— the SDUMP macro issued an incorrect return code.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0140

Explanation: This abend is issued by module APSPPODR or APSKODR— a Stop Device order was received with ABEND and NODUMP options specified.

System action: PSF processing ends abnormally. No system dump is generated for the abend.

0144

Explanation: This abend is issued by module APSPPDCM— an incorrect order was detected by APPPDCM.

System action: PSF processing ends abnormally.

0146

Explanation: This abend is issued by module APSPPDVP— dynamic allocation of storage failed.

System action: PSF processing ends abnormally.

0148

Explanation: This abend is issued by module APSPPDCM— the Page Pending Queue (PPQ) stacked queue was acquired while APSPPDCM had exclusive use of it.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

014C

Explanation: This abend is issued by module APSPPDCM— the FSI SEND request failed. The return code is in the SABFSARC in the APSFSAB control block.

System action: PSF processing ends abnormally.

0150

Explanation: This abend is issued by modules APSPPODR/APSKODR— the Stop Device order with ABEND and DUMP options was received.

System action: PSF processing ends abnormally.

0154

Explanation: This abend is issued by module APSPPDCM— an FSI RELDS request failed. The return code is in the SABFSARC field of the APSFSAB control block.

System action: PSF processing ends abnormally.

0158

Explanation: This abend is issued by module APSPPFAC— a Stop Device order was received with ABEND and NODUMP options specified.

System action: PSF processing ends abnormally. No system dump is generated for the abend.

015C

Explanation: This abend is issued by module APSPPFSA— the dynamic deallocation of the device being managed by FSA failed.

System action: PSF processing ends abnormally.

0160

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the FSA-level FSI DISCONNECT request failed.

System action: PSF processing ends abnormally.

0164

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the FREEMAIN macro for the FSA-level PSF control blocks failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0168

Explanation: This abend is issued by module APSPPTFA— an APSIDEQ macro to end the resource record block (RRB) interface for Page Printing Writer Document Processor failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

016C

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the write-to-operator message failed. The message was to notify the operator that the PSF FSA initialization was unsuccessful.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0170

Explanation: This abend is issued by module APSPPGDS— the TIME (SVC11) macro to get the time and date failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0174

Explanation: This abend is issued by modules APSPPODR/APSKODR— a Stop FSA order was received with ABEND and DUMP options specified.

System action: PSF processing ends abnormally.

0178

Explanation: This abend is issued by module APSPPODR or APSKODR— a Stop FSA FSI order was received with ABEND and NODUMP options specified.

System action: PSF processing ends abnormally. No system dump is generated for the abend.

017C

Explanation: This abend is issued by module APSPPCNP— the STIMERM CANCEL request failed.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0180

Explanation: This abend is issued by module APSPPNPR— the timer ID that was passed to the STIMERM exit routine when the timer expired did not match any timer ID returned when the STIMERM was issued.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible PSF or MVS logic error. For assistance related to this error code, consult your service representative in the IBMSupport Center, or use your electronic link with IBMservice.

0184

Explanation: This abend is issued by module APSPPFAC— an FSI SEND request failed.

System action: PSF processing ends abnormally.

0188

Explanation: This abend is issued by module APSPPDCM— no repositioning entry was found for the data set that spans the committed page counter. The minimum entry of a Begin Data Set (BDS) entry should exist.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

018C

Explanation: This abend is issued by modules APSPPDSP/APSKDSP— an FSI GETREC request failed. The return code is in the SABFSARC in the APSPFSAB control block.

System action: PSF processing ends abnormally.

0190

Explanation: This abend is issued by module APSPPDCM— the APSIPUT macro to free the first data set message record resource block (RRB) failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0194

Explanation: This abend is issued by module APSPPDVP— Page Pending Queue (PPQ) entries still exist, even though the device was stopped.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0198

Explanation: This abend is issued by module APSPPFAC— the Stop Device order was received with ABEND and DUMP options specified.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

019C

Explanation: This abend is issued by module APSPPTFA— the first record resource block (RRB) on the RRB stack was not the Page Printing Writer Document Processor RRB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01A0

Explanation: This abend is issued by module APSPPTFA— the Page Printing Writer Document Processor record resource block (RRB) was not the only RRB on the RRB stack after the end of the PSF FSA.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01A4

Explanation: This abend is issued by module APSPPODR— an incorrect operator-intervention type was specified in the Operator Intervention FSA order.

System action: PSF processing ends abnormally.

01A8

Explanation: This abend is issued by module APSPPGDS— an APSJCL logic error occurred during the processing of the COPIES JCL keyword. The copy count was not specified.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01AC

Explanation: This abend is issued by module APSPPDCM— a restart Page Pending Queue (PPQ) entry is not a valid PPQ entry type.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01B0

Explanation: This abend is issued by module APSPPDCM— APSPPDCM was called by module APSPPFAC to process an Operator Intervention order. The device, however, was not stopped.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01B4

Explanation: This abend is issued by module APSPPDCM— an incorrect intervention combination was specified by the Operator Intervention FSI order.

System action: PSF processing ends abnormally.

01B8

Explanation: This abend is issued by module APSPPDCM— the Begin Data Set (BDS) entry for the data set that spans the committed page counter could not be found in the stack queue.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01BA

Explanation: This abend is issued by module APSPPDCM— the Begin Transmission (BTM) entry for the data set that spans the committed page counter could not be found in the stack queue.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01BB

Explanation: This abend is issued by module APSPPDCM— not enough storage available for triplet data.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

01BC

Explanation: This abend is issued by module APSPPFAC— the SDUMP macro issued an incorrect return code during the processing of the Stop Device order with the DUMP option specified.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

01C0

Explanation: This abend is issued by module APSPPDVP— the STIMER macro failed to set a timer.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

01C4

Explanation: This abend is issued by module APSPPDCM— the APSIDEQ macro to dequeue the message record resource block (RRB) failed. No RRBs were on the stack that was to be dequeued.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01C8

Explanation: This abend is issued by module APSPPTFA— an APSIPUT call to dequeue the Job Entry Subsystem (JES) message record resource block (RRB) failed.

System action: PSF processing ends abnormally.

01CC

Explanation: This abend is issued by module APSPPDOT— a SEND FSI request failed. The SEND was issued to notify the Job Entry Subsystem (JES) that a data set was at the committed page counter.

System action: PSF processing ends abnormally.

01D0

Explanation: This abend is issued by module APSPPDOT— either the Page Pending Queue (PPQ) entry pointer passed by APSQDEQ does not point to a Begin Data Set (BDS), Begin Transmission (BTM), or End Data Set (EDS) entry, or the BDS pointed to should not be tracked.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01D4

Explanation: This abend is issued by module APSPPFSA or APSKFSA— the input parameter does not point to the APSPFSAE control block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01D8

Explanation: This abend is issued by module APSPPFAC— a Stop FSA order was received in which the ABEND and DUMP options were specified.

System action: PSF processing ends abnormally.

01DC

Explanation: This abend is issued by module APSPPFAC— a Stop FSA order was received in which the ABEND and NODUMP options were specified.

System action: PSF processing ends abnormally.

01F0

Explanation: This abend is issued by module APSPPFAC— during the processing of the Stop FSA order, the SDUMP macro issued an incorrect return code in which DUMP options were specified.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

01F4

Explanation: This abend is issued by module APSPPTFA— an APSIPUT macro to free the Job Entry Subsystem (JES) message buffers failed.

System action: PSF processing ends abnormally.

01F8

Explanation: This abend is issued by module APSPPIFA or APSKIFA— initialization for the Job Entry Subsystem (JES) interrupt-message record resource block (RRB) build failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

01F9

Explanation: This abend is issued by module APSPPDVP— the system function for OPEN of the PSF resource libraries did not succeed. The PSF resource libraries had been closed and there was an attempt to re-open them, but the re-open failed.

System action: PSF processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, use the information provided by these messages to recover from the open failure before contacting the IBM Support Center or using your electronic link with IBM service for assistance.

01FA

Explanation: This abend is issued by module APSPPDVP— the close request for the PSF resource libraries failed. PSF was trying to close the PSF resource libraries because no work is available for this printer and the close failed.

System action: PSF processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, use the information provided by these messages to recover from the open failure before contacting the IBM Support Center or using your electronic link with IBM service for assistance.

01FD

Explanation: This abend is issued by module APSPPDSP— APSPPDSP was specifically waiting for an FSI order, and it was dispatched for work.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

01FE

Explanation: This abend is issued by module APSPPDCM— the APSIPUT macro failed in an attempt to free the messages for the second record resource block (RRB).

System action: PSF processing ends abnormally.

01FF

Explanation: This abend is issued by module APSPPDVP— APSPPDVP was in job trailer processing, but Document Processor set a flag indicating otherwise.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0200

Explanation: This abend is issued by module APSCINIT— APSCINIT was called to initialize Device Manager, but the page-fixed storage area was already assigned. APSCINIT interprets this as a redundant call to APSCINIT.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0201

Explanation: This abend is issued by module APSCINIT— APSCINIT could not get storage for the Device Manager page-fixed storage area. This error was detected for a channel-attached device, and the region is probably too small.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be

increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0202

Explanation: This abend is issued by module APSCINIT— APSCINIT encountered an error while attempting to page-fix storage. An abend occurs if the PGFIX macro returns codes other than 0 or 8. An abend also occurs if a completion code is issued during the attempt to wait for the page fix, indicating that the attempt was unsuccessful.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0203

Explanation: This abend is issued by module APSCINIT— APSCINIT could not find the printer device DD name in the task I/O table (IEFTIOT1).

This abend should only occur when using a channel-attached printer; however, it could occur if you are using an SNA or TCP/IP attached printer. If the IPADDR, or APPLID and LUNAME parameters were not specified correctly in the PRINTDEV statement in the PSF startup procedure or in the Printer Inventory, this abend could occur.

This abend might have occurred for a printer that was added to the I/O configuration by use of the Dynamic Reconfiguration Management (DRM) function of MVS and JES2 or JES3 was not aware of the newly added device.

System action: PSF processing ends abnormally.

System programmer response: If DRM is being used to update the I/O configuration, ensure that the newly added device has been defined to JES2 or JES3. If you are trying to use a TCP/IP printer, verify that the IPADDR parameter is set correctly and the LUNAME and APPLID parameters are not being used in the PRINTDEV statement or in the Printer Inventory. If you are trying to use an SNA printer, verify that the LUNAME and APPLID parameters are set correctly and the IPADDR parameter is not being used in the PRINTDEV statement or in the Printer Inventory.

For JES2, use the $T or $ADD command. For JES3, do a restart.

0204

Explanation: This abend is issued by module APSCINIT— the SETLOCK macro issued a nonzero return code notifying APSCINIT that it was unable to get or release the local lock while working with the task control block/data extent block (TCB/DEB) queue.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0205

Explanation: This abend is issued by module APSCINIT— a DEBCHK macro failed while APSCINIT was attempting to add the data extent block (IEZDEB) to the data extent block (DEB) table.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0206

Explanation: This abend is issued by module APSCINIT— a failure occurred while APSCINIT was trying to make the address space nonswappable. This is done only in direct-printing mode. A return code was issued while waiting for the SYSEVENT TRANSWAP macro, indicating that the attempt to make the address space nonswappable was unsuccessful.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0208

Explanation: This abend is issued by module APSCINIT— For 3800 channel-attached devices, the GETMAIN for the OBR record failed. For an AFP1 channel-attached printer, the GETMAIN for the OBR record or the NACK buffer failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0209

Explanation: This abend is issued by module APSCINIT— APSCINIT encountered a GETMAIN failure for a Data Extent Block (DEB).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

020A

Explanation: This abend is issued by module APSCINIT— APSCINIT was called to initialize Device Manager and detected an incorrect attachment type specification in the Common Control Block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

020B

Explanation: This abend is issued by module APSCINIT— APSCINIT detected a UCB unit type value that is not supported by PSF. The value of UCBUNTYP or UCBDVCLS was neither X'0E', X'0F', nor X'08'. This abend reason code can also be issued when the PRINTDEV statement is missing the LUNAME parameter for an SNA-attached printer or the IPADDR parameter for a TCP/IP-attached printer.

System action: PSF processing ends abnormally.

020C

Explanation: This abend is issued by module APSCINIT— APSCINIT issued the sense ID CCW and it failed, or it issued the read configuration data CCW and it failed. This probably indicates that an I/O error was encountered when the sense ID or the read configuration data CCW was sent to the printer.

System action: PSF processing ends abnormally.

System programmer response: To determine the I/O error, check the MVS system console log or run the EREP report for the device. Notify your system engineer that a hardware error might have occurred.

020D

Explanation: This abend is issued by module APSCINIT— the TCP/IP port number is greater than 56,535.

System action: PSF processing ends abnormally.

System programmer response: Specify a value between 5001 and 56,535 for the Port number parameter in the Printer Inventory or the PORTNO parameter on the PRINTDEV statement in the startup procedure for PSF.

0211

Explanation: This abend is issued by module APSCTERM— APSCTERM detected an incorrect attachment type in the CCBCTYPE field of the common control block (CCB). The CCBCTYPE value must be C, S, or T.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0212

Explanation: This abend is issued by module APSCTERM— the SETLOCK macro returned a nonzero return code notifying APSCTERM that it was unable to get or release the local lock while working with the TCB/DEB (task control block— data extent block) queue.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0213

Explanation: This abend is issued by module APSCTERM— DEBCHK failed while APSCTERM was attempting to delete the data extent block (DEB) from the DEB table.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains Data Management macros to determine why the macro failed or returned unexpected results.

0214

Explanation: This abend is issued by module APSCTERM— APSCTERM encountered an error while attempting to make the address space swappable. This is done only in direct-printing mode. The SYSEVENT OKSWAP macro issued a return code while attempting to make the address space swappable; this indicates that the attempt was unsuccessful.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0216

Explanation: This abend is issued by module APSCBMGR— APSCBMGR (the buffer manager module) detected a request that was inconsistent with the buffer state. One of these conditions could exist:
- An incorrect function was requested.
- An attempt was made to allocate a block larger than the buffer.
- An attempt was made to allocate a block in which the specified minimum was greater than the length requested.
- The specified minimum was greater than 0, and IDAWS were also provided.
- An attempted assign would have resulted in a set of IDAWS that referenced more than 8K bytes.
- An attempt to free a block could cause the free-space size to exceed the buffer length.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0218

Explanation: This abend is issued by module APSCCDEV— APSCCDEV detected an incorrect attachment type in the CCBCTYPE field of the common control block (CCB). The CCBCTYPE value must be C, S, or T.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0219

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected a UCB unit type value that is not supported by PSF; the UCBUNTYP field had a value that was neither X'0E' nor X'0F'.

System action: PSF processing ends abnormally.

021A

Explanation: This abend is issued by module APSCCDEV— after multiple attempts, APSCCDEV was unable to refresh the printer characteristics. Failure was probably due to I/O errors encountered on the XOH-RPI, XOH-OPC, or STM command.

System action: PSF processing ends abnormally.

System programmer response: The printer is probably experiencing I/O errors. Check the printer to ensure that it is working correctly. If the printer is working correctly, restart PSF. If the printer has errors, correct them and restart PSF. If the printer errors persist, you might have to perform an IML of the printer.

021B

Explanation: This abend is issued by module APSCCDEV— APSCCDEV was called before TCP/IP was initialized by APSNINIT. APSNINIT must be called before APSCIPRT.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. For assistance with this error code, consult your service representative in the IBMsupport Center, or use your electronic link with IBMservice.

0220

Explanation: This abend is issued by module APSCADJR— the DATALNG parameter that was passed to APSCADJR was not valid. The DATALNG parameter was too large. Valid values for this parameter range from 0 to 2048. If you are adding a Write Text, Write Image, or Load Font command, the value must range from 0 to X'7FFFFFFF'.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0222

Explanation: This abend is issued by module APSCADJR— a Transfer-in-Channel (TIC) command parameter was passed to APSCADJR. An attempt was made to add the TIC command, but APSCADJR does not support TIC commands.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0223

Explanation: This abend is issued by module APSCADJR— the DATALNG parameter that was passed to APSCADJR was not valid. The DATALNG parameter in the channel command was negative. Valid values for this parameter range from 0 to 2048. If you are adding a Write Text, a Write Image, or a Load Font command, the value must be from 0 to X'7FFFFFFF'.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0224

Explanation: This abend is issued by module APSCADJR— APSCADJR detected two consecutive calls with different nonzero transaction IDs without an intervening call to APSCWRT.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0225

Explanation: This abend is issued by module APSCADJR— APSCADJR detected an incorrect printer family specification in the CCB; the field CCBCFMLY must have a valid value.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0226

Explanation: This abend is issued by module APSCADJR— APSCADJR requested buffer space from APSBMGR, but the request failed. APSCADJR then attempted to recover buffer space, but this request also failed, probably because of a programming error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0227

Explanation: This abend is issued by module APSCADJR— APSCADJR was called while in error state. This should not occur.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0228

Explanation: This abend is issued by module APSCADJR— APSCADJR requested buffer space from APSBMGR, but the request failed. APSCADJR then attempted to recover buffer space using two recovery routines, but this request also failed, probably because of a storage shortage.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0230

Explanation: This abend is issued by module APSCRDRV— APSCRDRV was called while I/O was still in progress. APSCRDRV should be called only during I/O error recovery, to redrive an inactive channel program.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0231

Explanation: This abend is issued by module APSCRDRV— APSCRDRV received an incorrect parameter specifying the point at which to begin the redrive. The only valid parameters are 0, 1, and 2. APSCRDRV should be called only during an I/O error recovery, to redrive an inactive channel program.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0232

Explanation: This abend is issued by module APSCRDRV— APSCRDRV detected an incorrect printer family specification in the CCB. The field CCBCFMLY must have a valid value.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0233

Explanation: This abend is issued by module APSCRDRV— APSCRDRV was called while not in error state. This is a program logic error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0234

Explanation: This abend is issued by module APSCOPCI— the 42x4 printer has an unsupported EC level.

System action: PSF processing ends abnormally.

System programmer response: Upgrade the 42x4 microcode to a supported level.

0235

Explanation: This abend is issued by module APSCOPCI— APSCOPCI could not get storage for the multiple output bin array, the Setup ID area, the medium name string, or the medium OID string.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0236

Explanation: This abend is issued by module APSCINFO or APSCOPCI— APSCINFO or APSCOPCI could not get storage for the Device Attribute Table input bin information entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0237

Explanation: This abend is issued by module APSCINFO— APSCINFO detected a printer that does not support the define user area (DUA) printer command while the user printable area (UPA) is in effect. This abend can occur if the SYSAREA is enabled and you are attempting to use a nonguaranteed printer. For more information about these areas, refer to *PSF for z/OS: Security Guide*.

System action: PSF processing ends abnormally.

0238

Explanation: This abend is issued by module APSCINFO— APSCINFO detected an incorrect printer family specification in the CCB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0239

Explanation: This abend is issued by module APSCOPCI— at device initialization, APSCOPCI detected in the OPC record that the printer was unable to detect the media size loaded in the printer. This abend occurred because of a hardware failure in the printer's media-size sensors.

System action: PSF tries to recover from this abend

by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: If the printer has removable paper cassettes or bins, ensure that the cassettes or bins are fully inserted into the printer.

023A

Explanation: This abend is issued by module APSCOPCI— APSCOPCI detected a two-channel switch configuration that is not supported by PSF. Any configuration that allows loosely coupled switching to actively occur causes this abend.

System action: PSF processing ends abnormally.

023B

Explanation: This abend is issued by module APSCSTMI— the printer does not support the DC/1 function set required by IPDS.

System action: PSF processing ends abnormally.

023C

Explanation: This abend is issued by module APSCOPCI— the Unit Base returned in the XOA Obtain Printer Characteristic acknowledge reply was not X'00'.

System action: PSF processing ends abnormally.

023D

Explanation: This abend is issued by module APSCSTMI or APSCOPCI— APSCSTMI or APSCOPCI detected that coded fonts were not designated as supported in the Sense, Type, and Model acknowledge reply. Or, APSCOPCI detected that symbol sets were not designated as supported in the Obtain Printer Characteristics acknowledge reply.

System action: PSF processing ends abnormally.

023E

Explanation: This abend is issued by module APSCSTMI— APSCSTMI detected that neither PT/1, PT/2, nor PT/3 was designated as supported by the Sense, Type, and Model acknowledge reply.

System action: PSF processing ends abnormally.

023F

Explanation: This abend is issued by module APSCOPCI— APSCOPCI could not get storage for the Selectable Medium Modification information entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0240

Explanation: This abend is issued by module APSCRSET— APSCRSET was called while I/O activity was still in progress.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0241

Explanation: This abend is issued by module APSCRSET— APSCRSET detected an incorrect attachment type in the CCBCTYPE field of the common control block (CCB). The CCBCTYPE value must be C, S, or T.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0242

Explanation: This abend is issued by module APSCOPCI— the actual medium presentation space width, actual medium presentation space length, Xm extent of the physical printable area in L-units, or Ym extent of the physical printable area in L-units returned on the X'0A' Obtain Printer Characteristics acknowledge reply was X'0000'.

System action: PSF issues message APS6502I and abnormally ends.

System programmer response: This PSF abend reason code indicates a logic error in the microcode of the printer. Consult your hardware service representative. This is *not* a PSF logic error. See message APS6502I for additional information

0243

Explanation: This abend is issued by module APSCOPCI— the Printable-Area Self-Defining field was not in the XOA Obtain Printer Characteristics acknowledge reply. Thus no input bins were defined.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error in the microcode of the printer. Consult your hardware service representative. This is *not* a PSF logic error.

0244

Explanation: This abend is issued by module APSCOPCI— there were no enabled non-inserter input bins defined in the Printable-Area Self-Defining field that was returned in the XOA Obtain Printer Characteristics acknowledge reply.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a configuration error at the printer. A non-inserter input bin must be enabled.

0245

Explanation: This abend is issued by module APSOCPCI— APSCOPCI detected that PSF was connected to the printer with an intermediate device of DPF or RPM3, and the printer was in automatic resolution mode.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the printer was in automatic resolution mode and that PSF was connected to the printer via DPF or RPM3. DPF and RPM3 do not support a printer in automatic resolution mode.

0246

Explanation: This abend is issued by module APSCOPCI— APSCOPSCI detected that the Obtain Printer Characteristics (OPC) response in the Printable Area Self-Defining field contained multiple media ID entries with the same media ID type value. The media ID type value MUST be different for each entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error in the microcode of the printer. Consult your hardware service representative. This is NOT a PSF logic error.

| **0247**

| **Explanation:** This abend is issued by module
| APSCOCPI— APSCOPCI could not get storage for the
| device appearance support list.

| **System action:** PSF processing ends abnormally.

| **System programmer response:** This PSF abend
| reason code indicates that the REGION size should be
| increased. If the print request is processing in
| direct-printing mode, this REGION size is for the job or
| step containing the request. If the print request is

| processing in deferred-mode, increase the REGION
| parameter used in the PSF startup procedure.

0248

Explanation: This abend is issued by module APSCOPCI— APSCOPCI could not get storage for a registration ID link list element.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0249

Explanation: This abend is issued by module APSCOPCI or APSCRPII— APSCOPCI or APSCRPII could not get storage for a Group Operation Link List element or subelement.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0250

Explanation: This abend is issued by module APSCCOMP— the last Channel Command Word (CCW) processed was neither a NOP CCW, a SIB CCW, nor a READ CCW.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

025A

Explanation: This abend is issued by module APSCNORS— the response timer expired before a response was received from the printer when No response action = Terminate was specified in the Printer Inventory or NORESP=TERMINATE was specified on the PRINTDEV statement.

System action: This abend is preceded by message APS940I with *prtnnnn* identifying the FSA for which this occurred. The FSA for the printer is stopped.

System programmer response: Determine why the printer is not responding and correct the problem. Then restart the FSA.

0260

Explanation: This abend is issued by module APSCCLR— APSCCLR printed too many blank pages during a nonprocess runout (NPRO). The failure might be due to an error in the microcode updating the printer counters; or it might have occurred because the Forward Spacing flag was left on during the NPRO.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0261

Explanation: This abend is issued by module APSCCLR— APSCCLR detected an incorrect input parameter for a channel-attached printer. The function parameter was not NPRO, PBD, or NOFUNCTION.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0262

Explanation: This abend is issued by module APSCCLR— APSCCLR detected an incorrect attachment type in the CCBCTYPE field of the common control block (CCB). The value must be C, S, or T.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0263

Explanation: This abend is issued by module APSCCLR— APSCCLR was called with an incorrect input parameter.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0264

Explanation: This abend is issued by module APSCCLR— APSCCLR was called for a printer inoperative condition with an action code X'22' on a TCP/IP connection.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a printer condition has occurred from which the printer cannot recover. Contact the person responsible for the remote printer.

0270

Explanation: This abend is issued by module APSCSNA— APSCSNA was called while PSF was driving a channel-attached printer. APSCSNA is used only for Systems Network Architecture-attached printers. This is probably a Device Manager logic error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0271

Explanation: This abend is issued by module APSCSNA— APSCSNA STRTPPCC function was invoked at a time when the PSF state was not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0272

Explanation: This abend is issued by module APSCSNA— APSCSNA ENDPPCC function was invoked at a time when the PSF state was not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0273

Explanation: This abend is issued by module APSCSNA— APSCSNA ESTBSESS function was invoked at a time when the PSF state was not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0274

Explanation: This abend is issued by module APSCSNA— APSCSNA HALTSESS function was invoked at a time when the PSF state was not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0275

Explanation: This abend is issued by module APSCSNA— APSCSNA SEND function was invoked at a time when the PSF state was not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0276

Explanation: This abend is issued by module APSCSNA— APSCSNA RECEIVE function was invoked at a time when the PSF state was not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0277

Explanation: This abend is issued by module APSCSNA— APSCSNA SESSSYNC function was invoked at a time when the PSF state was not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0278

Explanation: This abend is issued by module APSCSNA— the END PPCC function in the module APSCSNA detected a logic error after issuing the TERMINATE verb. The return code could not be mapped.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0279

Explanation: This abend is issued by module APSCSNA— the module APSCSNA detected a logic error when attempting to issue the TERMINATE TYPE (NORMAL) verb.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027A

Explanation: This abend is issued by module APSCSNA— the module APSCSNA detected a logic error after issuing the DEACTIVATE TYPE (NORMAL) verb to PPCC. The return code from DEACTIVATE could not be mapped.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027B

Explanation: This abend is issued by module APSCSNA— the SEND_DATA function of the module APSCSNA detected that the length of data to be sent to the printer was greater than 32,765 bytes.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

027C

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a logic error when attempting to issue the DEACTIVATE TYPE (NORMAL) verb. DEACTIVATE TYPE (NORMAL) should be able to be issued after the DEALLOCATE TYPE (LOCAL) verb.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027D

Explanation: This abend is issued by module APSCSNA— the HALT_SESS function in APSCSNA detected a logic error after issuing the DEALLOCATE TYPE (FLUSH) verb to PPCC. The return code from DEALLOCATE could not be mapped.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027E

Explanation: This abend is issued by module APSCSNA— APSCSNA detected an incorrect value for the internal state.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

027F

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a logic error after issuing the PRE_RECEIVE verb to PPCC. The return code could not be mapped.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0280

Explanation: This abend is issued by module APSCINIT— APSCINIT could not get storage for the Device Manager control block for a Systems Network Architecture-attached printer. The region is probably too small, as this is one of the first requests for storage during device initialization.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0281

Explanation: This abend is issued by module APSCSNA— the HALT_SESS function of the module APSCSNA detected a logic error while attempting to issue the DEACTIVATE TYPE (NORMAL) command. The DEALLOCATE TYPE (NORMAL) verb should be issued after the DEALLOCATE TYPE (ABEND) verb.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0282

Explanation: This abend is issued by module APSCSNA— APSCSNA was invoked with an incorrect function. The valid values are defined in APSCSNA.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0283

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a logic error when it attempted to map the internal state it calculated to an external PSF state.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0284

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a logic error. An incorrect internal state was calculated by the RECDATA function.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0285

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a logic error. An incorrect internal state was calculated by the SESSSYNC function.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0287

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a second PGMERR return code from PPCC after issuing the RECEIVE and WAIT verb when going to Send state.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

028A

Explanation: This abend is issued by module APSCCDEV— APSCCDEV was issued before the Page Printer Communications Component was loaded (by APSCINIT). APSCINIT must be called before APSCIPRT.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

028C

Explanation: This abend is issued by module APSCIPRT— APSCIPRT detected an incorrect printer family specification in the field CCBCFMLY of the CCB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

028D

Explanation: This abend is issued by module APSCIPRT— APSCIPRT detected an incorrect LU Type for a Systems Network Architecture-attached printer; the LU type must be LU 1 or LU 6.2. Or, APSCIPRT detected an incorrect attachment type in the CCBCTYPE field of the common control block (CCB); the CCBCTYPE value must be C, S, or T.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. For assistance related to this error code, consult your service representative in the IBMSupport Center.

0291

Explanation: This abend is issued by module APSCTERM— APSCTERM detected that the DELETE macro failed to delete the Page Printer Communications Component load module.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

02A0

Explanation: This abend is issued by module APSCADJR— an incorrect parameter was passed to APSCADJR for a Systems Network Architecture-attached printer; the data length of the command was too large. The DATALNG parameter must be between 0 and 32 758 bytes (if correlation IDs are supported) or between 0 and 32 760.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A1

Explanation: This abend is issued by module APSCADJR— APSCADJR detected an incorrect attachment type in the CCBCTYPE field of the common control block (CCB). The CCBCTYPE value must be C, S, or T.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A2

Explanation: This abend is issued by module APSCADJR— the Systems Network Architecture session or the TCP/IP conversation was lost, or else the printer was not initialized upon entry to APSCADJR. APSCCDEV must be called and successfully completed before any module other than APSCIPRT can call APSCADJR.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A3

Explanation: This abend is issued by module APSCADJR— an incorrect combination of the PSF state and the APSCSNA return code resulted after APSCSNA returned to APSCADJR. Or, an incorrect combination of the PSF state and the APSCTCP return code resulted after APSCTCP returned to APSCADJR.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A4

Explanation: This abend is issued by module APSCADJR— APSCADJR called APSCCOMP to process an exception reported from an Systems Network Architecture printer. APSCCOMP cannot return to a zero return code unless PSF is in Synchronous Order processing. PSF ignores certain exceptions in Synchronous Order processing.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A5

Explanation: This abend is issued by module APSCTCP— the attachment type is not valid. The attachment must be TCP/IP.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A6

Explanation: This abend is issued by module APSCTCP— APSCTCP was called with an incorrect external state.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A7

Explanation: This abend is issued by module APSCTCP— APSCTCP was called with an incorrect external state (not TCP_RESET) for TCPINIT (printer initialization).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A8

Explanation: This abend is issued by module APSCTCP— APSCTCP was called with an incorrect external state (not TCP_CONVLOST) for TCPLINK (TCP/IP socket connection).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02A9

Explanation: This abend is issued by module APSCTCP— APSCTCP was called with an incorrect external state (not TCP_SEND, TCP_RECEIVE, or TCP_CONVLOST) for TCPSHUT (shutdown) or with an incorrect external state (not TCP_CONVLOST) for TCPTERM (terminate).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02AA

Explanation: This abend is issued by module APSCTCP— APSCTCP was called with an incorrect external state (not TCP_SEND) for TCPSEND (sending data).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02AB

Explanation: This abend is issued by module APSCTCP— APSCTCP was called with an incorrect external state (not TCP_RECEIVE) for TCPRECV (receiving data).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02AC

Explanation: This abend is issued by module APSCTCP— APSCTCP was called with an incorrect function.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02AE

Explanation: This abend is issued by module APSCTCP— the IPDS data length is greater than 32,767.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02AF

Explanation: This abend is issued by module APSCTCP— no data is in the receive buffer.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B0

Explanation: This abend is issued by module APSCCOMP— the Device Manager subcomponent of PSF was not in SEND or RECEIVE state when APSCCOMP was issued outside of initialization for a Systems Network Architecture- or TCP/IP-attached printer.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B1

Explanation: This abend is issued by module APSCSNA— APSCSNA detected a second program error return code from the PPCC after issuing a RECEIVE and WAIT verb to receive data.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B2

Explanation: This abend is issued by module APSCCOMP— APSERRM did not call APSCRSET or APSCRDRV before returning to APSCCOMP. APSCCOMP probably has a logic error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B3

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected an incorrect acknowledgment type. This is probably a Page Printer Communications Component logic error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B4

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected an incorrect acknowledgment record (incorrect command code).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B5

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected an incorrect attachment type specification in the CCB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B6

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected a null acknowledgment from a channel attached printer. The printer returned a null ACK record. A null ACK record

means that no page counters were returned in the response from the device. PSF requires page counters to continue processing pages.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your IBM Hardware Customer Engineer and have them check to make sure your printer is at the latest microcode level.

02B7

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected an incorrect printer family specification in the CCB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B8

Explanation: This abend is issued by module APSCCOMP— the Channel-End appendage received control. It detected Channel-End status without Device-End status in an otherwise normal channel program ending.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02B9

Explanation: This abend is issued by module APSCCOMP— APSCCOMP was called while the PSF Device Manager was in error state.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02BA

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected a protocol error. PPCC indicated that the printer or controller recovered incorrectly from an intervention-required condition at the printer. The SNA level recovery (sending -rsp 0802) was done without first sending the required IPDS NACK. The

IPDS NACK is required in order for PSF to reposition correctly. Examples of intervention-required conditions include paper jams and running out of paper.

System action: PSF tries to recover from this abend by restarting. If PSF successfully restarts, message APS057I is issued.

System programmer response: This PSF abend reason code indicates a logic error in the microcode of either the printer or the SNA controller. Consult your hardware service representative. This is *not* a PSF logic error.

02BB

Explanation: This abend is issued by module APSCCOMP— after APSCSNA returned to APSCCOMP, APSCCOMP detected an incorrect combination of the PSF state and the APSCSNA return code. Or, APSCCOMP detected an incorrect combination of the PSF state and the APSCTCP return code after APSCTCP returned to APSCCOMP.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02BC

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected multiple acknowledgment records returned in a single Systems Network Architecture response.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02BE

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected that the PSF-simulated received page counter was not equal to the received page counter returned from the printer in a positive acknowledgment (ACK) record.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend is most likely caused by a logic error in the printer microcode, but could be a PSF logic error. Consult your hardware service representative. See message APS6503I for additional information.

02BF

Explanation: This abend is issued by module APSCCOMP— APSCCOMP detected an incorrect negative acknowledgment record (incorrect sense byte or page counter format).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02C0

Explanation: This abend is issued by module APSCWRT— the Device Manager subcomponent of PSF was not in SEND or RECEIVE state when APSCWRT was issued outside of initialization for a Systems Network Architecture- or TCP/IP-attached printer. This is a logic error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02C1

Explanation: This abend is issued by module APSCWRT— APSCWRT detected an incorrect attachment type in the CCBCTYPE field of the common control block (CCB). The value must be C, S, or T.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02C2

Explanation: This abend is issued by module APSCWRT— APSCWRT detected an incorrect printer family specification in the common control block (CCB) field CCBCFMLY.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02C3

Explanation: This abend is issued by module APSCWRT— APSCWRT was called while in error state.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02D0

Explanation: This abend is issued by module APSCSYNC— the Device Manager subcomponent of PSF was not in SEND or RECEIVE state when APSCSYNC was issued for a Systems Network Architecture- or TCP/IP-attached printer.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02D1

Explanation: This abend is issued by module APSCSNIO— the Device Manager subcomponent of PSF issued a sense type and model command and discovered that the printer type had changed while PSF was running.

System action: PSF processing ends abnormally.

02D2

Explanation: This abend is issued by module APSCSYNC— APSCSYNC detected an incorrect attachment type in the CCBCTYPE field of the common control block (CCB). The CCBCTYPE value must be C, S, or T.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02D3

Explanation: This abend is issued by module APSCSYNC— after APSCSNA returned to APSCSYNC, APSCSYNC detected an incorrect combination of the PSF state and the APSCSNA return code.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E0

Explanation: This abend is issued by module APSCPRCT— APSCPRCT was called to support a device with an attachment type other than channel attachment.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E1

Explanation: This abend is issued by module APSCPRCT— APSCPRCT was called with an incorrect function requested.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E2

Explanation: This abend is issued by module APSCPRCT— an attempt failed to assign a CCW to end a transaction. APSCPRCT should always be able to assign one CCW before filling the CCW buffer.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E3

Explanation: This abend is issued by module APSCPRCT— APSCPRCT detected an incorrect printer family specification in the CCB field CCBCFMLY.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E5

Explanation: This abend is issued by module APSCPRCT— APSCPRCT detected an incorrect response (acknowledgement) from a natively channel-attached printer or a channel extender to which the channel-attached printer is connected.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts. Message APS920I is issued when this abend occurs.

System programmer response: This PSF abend is most likely due to a printer microcode problem, but could be a PSF logic error. Consult your hardware service representative.

If the printer is channel-attached to a channel extender, this is probably a channel extender microcode problem. Contact your channel extender hardware service representative. See message APS920I for additional information

02E6

Explanation: This abend is issued by module APSCPRCT— APSCPRCT detected that the page counter received from the printer does not match the PSF-simulated received page counter. Either the printer did not increment the page counter by 1 or it is a PSF logic error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02E7

Explanation: This abend is issued by module APSCCTIM— the STIMERM macro failed to set a timer.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

02E9

Explanation: This abend is issued by module APSCSNIO— APSCSNIO was invoked with an incorrect function request.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

02EA

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected a request to perform a READ request while not in I/O error state. Either an I/O error did not occur, or APSCRDRV or APSCRSET was called, and cleared the error, before APSCSNIO was invoked.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02EB

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected a null ACK record on return from the printer.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts. Message APS920I is issued when this abend occurs.

System programmer response: This PSF abend is most likely due to a printer microcode problem, but could be a PSF logic error. Consult your hardware service representative.

If the printer is channel-attached to a channel extender, this is probably a channel extender microcode problem. Contact your channel extender hardware service representative. See message APS920I for additional information

02EC

Explanation: This abend is issued by module APSCSNIO— the PSF state must be SEND when APSCSNIO is called to perform the selected function.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02ED

Explanation: This abend is issued by module APSCSNIO— the APSCSNIO SENSEID function detected an incorrect condition. These conditions must be true for PSF when APSCSNIO is called to perform the SENSEID function:

- The device contact indicator should be set OFF.

- The PSF Device Manager initialization indicator should be set ON.
- The ignore residual errors indicator should be set ON.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02EE

Explanation: This abend is issued by module APSCSNIO— the APSCSNIO SENSEID function was unable to complete its function successfully. The printer did not respond to the first PSF IPDS command (STM). The SNA or TCP/IP connection might have failed, or a printer hardware error might be the cause. No IPDS information on the reason for the failure is available.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This abend indicates a possible printer hardware error. Correct any problems indicated on the printer operator panel. Correct any outstanding intervention conditions at the printer. Verify that a good network path to the printer exists. Re-IML the printer. If the problem persists, consult your systems engineer for assistance in correcting this error.

02EF

Explanation: This abend is issued by module APSCSNIO— the APSCSNIO READ function was unable to obtain a valid acknowledgment record from the printer.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F0

Explanation: This abend is issued by module APSCSNIO— the APSCSNIO ONECMD function was unable to obtain a valid acknowledgment record from the printer.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your

electronic link with IBM service for assistance regarding this error code.

02F1

Explanation: This abend is issued by module APSCSNIO— after APSCSNA returned to APSCSNIO, APSCSNIO detected an incorrect combination of the PSF state and the APSCSN return code. Or, APSCSNIO detected an incorrect combination of the PSF state and the APSCTCP return code after APSCTCP returned to APSCSNIO.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F2

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected a looping condition caused by consecutive PPCC RETRY return codes.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F3

Explanation: This abend is issued by module APSCSNIO— either APSCSNIO received an incorrect acknowledgment record type from the printer, or the device manager subcomponent of PSF issued a sense type and model command. Then the device manager subcomponent discovered that the printer type had changed to a printer using a different acknowledgment format while PSF was running.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error within the microcode of the printer. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F4

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected an incorrect printer family in the Common Control Block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F5

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected an incorrect attachment type in the Common Control Block (CCB) field CCBCFMLY.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F6

Explanation: This abend is issued by module APSCSNIO— the APSCSNIO ONECMD function was called to send an IPDS command that the APSCSNIO ONECMD function does not support.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02F7

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected multiple acknowledgment records returned in a single Systems Network Architecture response or returned in a single TCP/IP response.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts. Message APS920I is issued when this abend occurs. This abend is only issued when using a SNA or TCP/IP attached printer.

System programmer response: This PSF abend reason code is most likely caused by a logic error in the printer microcode, but could be a PSF logic error. Consult your hardware service representative. See message APS920I for additional information.

02F8

Explanation: This abend is issued by module APSCSNIO— APSCSNIO detected an incorrect acknowledgment record (incorrect command code). If attached to a channel printer, the LMOD IGE0000E might not have been found. IGE0000E is the PSF supplied ERP for non-3800-channel-attached printers.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts. Message APS920I is issued when this abend occurs.

System programmer response: This PSF abend is most likely caused by a logic error in the microcode of the printer, but could be a PSF logic error. Consult your hardware service representative. See message APS920I for additional information.

02F9

Explanation: This abend is issued by module APSCSNIO— APSCSNIO is unable to determine and set the printer family on the basis of the value returned in the acknowledgment record type field; or else the printer family field in the Common Control Block does not match the previously determined printer family.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code results from a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

02FF

Explanation: This abend is issued by module APSCCDEV— APSCCDEV was unable to establish contact with the printer after multiple attempts. Failure to make contact might be due to a permanent printer hardware error, an uncleared intervention-required condition at the printer, or a network problem.

System action: PSF processing ends abnormally.

System programmer response: The printer might require a hardware reset, or the printer might still be in the middle of printing pages of a previous job from a previous SNA session. Allow the printer time to complete processing the previous job before attempting to establish contact again. Clear any intervention-required condition at the printer. Then restart PSF to try to establish contact again. If these actions do not fix the problem, consult your service representative in the IBMSupport Center, or use your electronic link with IBMservice for assistance related to this error code.

0300

Explanation: This abend is issued by module APSQINIT— APSQINIT was called to initialize Pending Page Queue (PPQ) manager. However, PPQ manager was already initialized, and the PPQ control block, APSQPPQ, already exists.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0301

Explanation: This abend is issued by module APSQINIT— APSQINIT was unable to get space for the Pending Page Queue (PPQ) control block, APSQPPQ.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0310

Explanation: This abend is issued by module APSQDACT— APSQDACT could not find the Pending Page Queue (PPQ) control block, APSQPPQ, for one of these reasons:
* APSQDACT was called before PPQ was initialized.
* An alteration has caused the pointer to APSQPPQ to be incorrect .
* An alteration has caused APSQPPQ to be incorrect .

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0311

Explanation: This abend is issued by module APSQDACT— APSQDACT received an incorrect input parameter. Either PPQPTR or COUNT equal zero, or PPQPTR is not pointing to a valid PPQ entry on the active queue.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0320

Explanation: This abend is issued by module APSQENQ— APSQENQ could not find the Pending Page Queue (PPQ) control block, APSQPPQ, for one of these reasons:
* APSQENQ was called before PPQ was initialized.

* An alteration has caused the pointer to APSQPPQ to be incorrect .
* An alteration has caused APSQPPQ to be incorrect .

PPQ must be initialized before the Device Manager (see APSPPIFA).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0321

Explanation: This abend is issued by module APSQENQ— APSQENQ was called to build and queue a Pending Page Queue (PPQ) entry on the active queue. However, the PPQ exceeded the maximum size of 65,535 entries.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0322

Explanation: This abend is issued by module APSQENQ— APSQENQ was unable to get space for a Pending Page Queue (PPQ) entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0323

Explanation: This abend is issued by module APSQENQ— APSQENQ received an incorrect input parameter. The input to APSQENQ should be a positive transaction ID.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0324

Explanation: This abend is issued by module APSQENQ— incorrect pointer data caused errors in repositioning in the message data set.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0325

Explanation: This abend is issued by module APSQENQ— the block and record count of the last record written to the current message data set was not the same in both the DIA (DIAMREP) and the current message RRB (RRBREP).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0331

Explanation: This abend is issued by module APSQDEQ— an error was reported by APSIPUT in freeing the message data set buffers.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0332

Explanation: This abend is issued by module APSQDEQ— an error was reported by APSQDEQ in dequeuing and freeing the message data set record resource block (RRB).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0333

Explanation: This abend is issued by module APSQDEQ— APSQDEQ received a transaction ID higher than that of the first incomplete PPQ entry. A routine has called APSQDEQ after a previous required call was omitted.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0334

Explanation: This abend is issued by module APSQDEQ— APSQDEQ detected a form ID error: the printer incremented or decremented an ID erroneously.

System action: PSF processing ends abnormally.

System programmer response: Apply maintenance to the microcode for the 3800 printer to bring it up to current levels.

0335

Explanation: This abend is issued by module APSQDEQ— routing of the message data set to a SYSOUT data set failed. To determine the reason for the failure, see the accompanying error message on the operator console.

System programmer response: To determine the appropriate action, see the System Programmer Response for the accompanying error message on the operator console.

0340

Explanation: This abend is issued by module APSQIMPL— APSQIMPL could not find the Pending Page Queue (PPQ) control block, APSQPPQ, for one of these reasons:
- APSQIMPL was called before PPQ was initialized.
- An alteration has caused the pointer to APSQPPQ to be incorrect .
- An alteration has caused APSQPPQ to be incorrect .

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

03D0

Explanation: This abend is issued by module APSHHERI— one of the multiple data set requests sent by AFP Download Plus received a negative response with a recovery indicator specifying that the remote system is coming down.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system or with AFP Download Plus.

Contact your remote system service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service.

03D1

Explanation: This abend is issued by module APSHHERI— the End Compression request received a negative response with a recovery indicator specifying that the remote system is coming down.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system or with AFP Download Plus.

Contact your remote system service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service.

03D2

Explanation: This abend is issued by module APSHHERI— the Checkpoint request received a negative response with a recovery indicator specifying that the remote system is coming down.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system or with AFP Download Plus.

Contact your remote system service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service.

03D3

Explanation: This abend is issued by module APSHHERI— the EOF request received a negative response with a recovery indicator specifying that the remote system is coming down.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download

Plus abend reason code indicates a possible logic error with the remote system or with AFP Download Plus.

Contact your remote system service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service.

03D4

Explanation: This abend is issued by module APSHHERI— the Checkpoint Restart header request received a negative response from the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system.

Contact your remote system service representative for assistance.

03D5

Explanation: This abend is issued by module APSHHERI— the Checkpoint Restart byte count received a negative response from the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system.

Contact your remote system service representative for assistance.

03D6

Explanation: This abend is issued by module APSHHERI— a bad request type was detected.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with AFP Download Plus.

Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03D7

Explanation: This abend is issued by module APSHHERI— the remote system issued an extended receiver information response with a recovery indicator that is not supported.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download

Plus abend reason code indicates a possible logic error with the remote system.

Contact your remote system service representative for assistance.

03D8

Explanation: This abend is issued by module APSHHRSP— an unknown response was received from the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system.

Contact your remote system service representative for assistance.

03D9

Explanation: This abend is issued by module APSHHDET— a response was received from the remote system that did not support encoding of the data when encoding of the data was active.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system.

Contact your remote system service representative for assistance.

03E0

Explanation: This abend is issued by module APSHHJOF— the header that was being built exceeded the size of the send buffer.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This message indicates a possible logic error. Alternatively, the header might have grown in size until it exceeded the length of the send buffer.

Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03E1

Explanation: This abend is issued by module APSHHQSC— APSHHQSC encountered an incorrect counter value that it did not recognize.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03E2

Explanation: This abend is issued by module APSHHQSC— APSHHQSC encountered an incorrect command code that it did not recognize.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

03E3

Explanation: This abend is issued by module APSHHJOF, APSHHEOF, or APSHHCKT — APSHCTCP was called with an incorrect external state (not TCP_RECEIVE) for TCPRECV (receiving data).

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error.

Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03E4

Explanation: This abend is issued by module APSHHJOF, APSHHCKT, or APSHHEOF — An unknown response was received from the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

03E5

Explanation: This abend is issued by module APSHHJOF, APSHHRGF, APSHHMDF, APSHHEOF, or APSHHCKT— APSHCTCP was called with an incorrect external state (not TCP_SEND) for TCPSEND (sending data).

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error.

Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03E6

Explanation: This abend is issued by module APSHHSND — APSHHSND encountered an incorrect return code from one of the sender modules that it did not recognize.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error.

Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03E7

Explanation: This abend is issued by module APSHHRGF or APSHHMDF— AFP Download Plus could not open the file. See the return code and reason code in the accompanying message for more details.

System action: AFP Download Plus processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or using your electronic link with IBM service.

03E8

Explanation: This abend is issued by module APSHHRGF or APSHHMDF— AFP Download Plus could not read the file. See the return code and reason code in the accompanying message for more details.

System action: AFP Download Plus processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or using your electronic link with IBM service.

03E9

Explanation: This abend is issued by module APSHHJOF, APSHHRGF, or APSHHMDF — A fixed long addition operation failed.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error.

03EA

Explanation: This abend is issued by module APSHHRGF or APSHHMDF— AFP Download Plus attempted to change the file offset. The file offset is the position in a file from which data is next read. See the return code and reason code in the accompanying message for more details.

System action: AFP Download Plus processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or using your electronic link with IBM service.

03EB

Explanation: This abend is issued by module APSHHSND — there is not enough storage for the send buffer.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

03EC

Explanation: This abend is issued by module APSHHSND— the maximum number of attempts has been exceeded for this job.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error.

Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03ED

Explanation: This abend is issued by module APSHHSND— APSHCTCP was called with an incorrect external state (not TCP_CONVLOST) for TCPLINK (TCP/IP socket connection).

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error.

Contact your service representative in the IBM Support

Center or use your electronic link with IBM service for assistance.

03EE

Explanation: This abend is issued by module APSHHSND— APSHCTCP was called with an incorrect external state (not TCP_SEND, TCP_RECEIVE, or TCP_CONVLOST) for TCPSHUT (shutdown).

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error.

Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03EF

Explanation: This abend is issued by module APSHHRGF or APSHHMDF— AFP Download Plus could not read the file. See the return code and reason code in the accompanying message for more details.

System action: AFP Download Plus processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or using your electronic link with IBM service.

03F0

Explanation: This abend is issued by module APSHHSND— there is not enough storage for APSHHSCB.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

03F1

Explanation: This abend is issued by module APSHHQSC— A negative response to the Query Supported Command request was received from the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

03F2

Explanation: This abend is issued by module APSHHQSC— The four-byte end-of-file request is not supported by the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

03F3

Explanation: This abend is issued by module APSHHQSC— The Query Supported Command request is not supported by the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

03F4

Explanation: This abend is issued by module APSHHQSC— The remote system only supports one of the two multiple data set requests.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

03F5

Explanation: This abend is issued by module APSHHQSC— One of the compression requests is supported by the remote system and the other compression request is not supported by the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

03F6

Explanation: This abend is issued by module APSHHRSP— A processing acknowledgement was received from the remote system, but the remote

system does not support processing acknowledgements.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

03F7

Explanation: This abend is issued by module APSHHMDS— A select value was encountered that was not valid.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03F8

Explanation: This abend is issued by module APSHHMDS— A negative response to one of the multiple data set requests was received from the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system or AFP Download Plus. Contact your remote system service representative, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

03F9

Explanation: This abend is issued by module APSHHMDS— An unknown response was received from the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

03FA

Explanation: This abend is issued by module APSHHCMP— A compression type that is not valid was passed from the calling module.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03FC

Explanation: This abend is issued by module APSHHCMP— A response that was not valid was received from the remote system.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error with the remote system. Contact your remote system service representative for assistance.

03FD

Explanation: This abend is issued by module APSHHCKT— The remote system does not support the eight-byte checkpoint request.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

03FE

Explanation: This abend is issued by module APSHHEOF— The remote system does not support the eight-byte end-of-file request.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

0400

Explanation: This abend is issued by module APSHOPOS— there is not enough storage for a PrintOutSource object.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

0401

Explanation: This abend is issued by module APSHOPOS— there is not enough storage for a DownloadDS object.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

0402

Explanation: This abend is issued by module APSHODES— there is not enough storage for the DES object.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

0403

Explanation: This abend is issued by module APSHODES— DESRecvTCPIP returned in the wrong state. It should always return in TCP_SEND state.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

0404

Explanation: This abend is issued by module APSHODES— DESSendTCPIP returned in the wrong state.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

0405

Explanation: This abend is issued by module APSHODES— there is not enough storage for APSNTREC.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

0406

Explanation: This abend is issued by module APSHODES— there is not enough storage for APSNTPSR.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

0407

Explanation: This abend is issued by module APSHODES— the TCP/IP port number is greater than 56,535.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Specify a value between 5001 and 56,535 for the Port number parameter in the Printer Inventory or the PORTNO parameter on the PRINTDEV statement in the startup procedure for AFP Download Plus.

0408

Explanation: This abend is issued by module APSHODES— TCP/IP was not initialized in state TCP_RESET before DESLinkTCPIP.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

0409

Explanation: This abend is issued by module APSHODES— DESLinkTCPIP returned in the wrong state. It should always return in TCP_SEND state.

System action: AFP Download Plus processing ends abnormally.

System programmer response: The AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance.

0410

Explanation: This abend is issued by module APSHODES— there is not enough storage for the TCP/IP send buffer.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

0411

Explanation: This abend is issued by module APSHMPMF— the structured field in the internal message data set is not a Message Variable (MSV) structured field. For more information about the MSV structured field, refer to *Mixed Object Document Content Architecture Reference*.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0412

Explanation: This abend is issued by module APSHMPMF— APSDGET detected an error while trying to access the messages by reading the first record from an internal record data set.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0413

Explanation: This abend is issued by module APSHMPMF— an attempt to build a record resource block (RRB) to access the internal message data set was unsuccessful.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0414

Explanation: This abend is issued by module APSHMPMF— an attempt to delete a record resource block (RRB) used to access the internal message data set was unsuccessful. The RRB for the message data set cannot be removed from the queue.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0415

Explanation: This abend is issued by module APSHMPMF— the message file could not be created.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Refer to message APS8550I on the operator console to determine the system response needed.

0416

Explanation: This abend is issued by module APSHMPMF— the message file could not be opened.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Refer to message APS8551I on the operator console to determine the system response needed.

0417

Explanation: This abend is issued by module APSHMPMF— APSHMPMF could not get storage for the full path and file name string for the message file.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

0418

Explanation: This abend is issued by APSHPCRT— the POS object could not be created.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or user your electronic link with IBM service for

assitance regarding this error code.

0419

Explanation: This abend is issued by module APSHJCK— there is not enough virtual storage to build the interpreter rules.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

041A

Explanation: This abend is issued by module APSHROCR— APSHROCR could not get storage for the base font list.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

041B

Explanation: This abend is issued by module APSHROCR— APSHROCR could not get storage for converting the TrueType Font name to UTF-16 encoding.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

041C

Explanation: This abend is issued by module APSHROCR— APSHROCR could not get storage for the linked font list.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

041D

Explanation: This abend is issued by module APSHROCR— APSHROCR could not get storage for the multiple name list for the Data Object Font.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

041E

Explanation: This abend is issued by APSHPCRT— the system has insufficient memory for the directory read buffer.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

0420

Explanation: This abend is issued by module APSHDWPF— the MO:DCA data file could not be written.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Refer to message APS8558I on the operator console to determine the response needed.

0421

Explanation: This abend is issued by module APSHDWPF— the resource group file could not be written.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Refer to message APS8558I on the operator console to determine the response needed.

0422

Explanation: This abend is issued by module APSHDCLS— the resource group file could not be written.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Refer to message APS8558I on the operator console to determine the response needed.

0423

Explanation: This abend is issued by module APSHDCLS— the MO:DCA data file could not be written.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Refer to message APS8558I on the operator console to determine the response needed.

0435

Explanation: This abend is issued by module APSDDOC— the carriage control type in the RRB control block was not recognized. It should have been either none, ANSI, or machine.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0490

Explanation: This abend is issued by module APSDGETI— an incorrect combination of return and reason codes was issued from the invocation of the APSIGET macro.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04A0

Explanation: This abend is issued by module APSDINIT— control was passed to module APSGGETM with the issuance of the APSXGETM macro. This abend indicates that the required storage could not be obtained.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is

processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

04A5

Explanation: This abend is issued by module APSDINIT— a nonzero return code was received from the first APSIPUT macro against Page Printing Writer output spool APSIRRB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B0

Explanation: This abend is issued by module APSDPROC— the first invocation of APSDGET issued a nonzero return code when getting the first record from Page Printing Writer.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B1

Explanation: This abend is issued by module APSDPROC— module APSCCLR issued an incorrect return code.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B2

Explanation: This abend is issued by module APSDPROC— module APSDDS issued an incorrect return code.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

04B4

Explanation: This abend is issued by module APSDPROC— APSDGET issued a nonzero return code while getting the next record from Page Printing Writer.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B5

Explanation: This abend is issued by module APSDPROC— after the invocation of APSCCLR, an I/O error was issued with an action code, sense-byte 2, indicating that the current page was ending. The action code for an I/O error cannot end the current page after a call to APSCCLR.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B6

Explanation: This abend is issued by module APSDPROC— after the invocation of APSCCLR, an I/O error was issued with an unrecognizable action code, sense-byte 2.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B8

Explanation: This abend is issued by module APSDPROC— after the invocation of APSDDS, an I/O error was issued with an unrecognizable action code.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04B9

Explanation: This abend is issued by module APSDPROC— after the invocation of APSDDS, an I/O error was issued with an action code, sense-byte 2, indicating that the current page was ending. The action code for an I/O error cannot end the current page after a call to APSDDS.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04F0

Explanation: This abend is issued by module APSDLOAD— the object type indicated in the Resource Control Block (RCB) that was passed to APSDLOAD is unrecognizable.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04F2

Explanation: This abend is issued by module APSDLOAD— an I/O error occurred while a font was being loaded. Repeated tries were unsuccessfully made to delete the part of the font that was already loaded. APSDLOAD cannot delete the font, because of repeated I/O errors.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04F3

Explanation: This abend is issued by module APSDLOAD— not enough virtual storage was available to build the Formdef Interface parameter area.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

04F4

Explanation: This abend is issued by module APSDLOAD— insufficient virtual storage was available to build the PAGEDEF Interface parameter block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

04F5

Explanation: This abend is issued by module APSDLOAD— the library type indicated in the Resource Control Block (RCB) that was passed to APSDLOAD is unrecognizable.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

04F6

Explanation: This abend is issued by module APSDLOAD— APSDLOAD cannot get storage for common conversion machine (CCM) Object Container Interface control block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

04F7

Explanation: This abend is issued by module APSDLOAD— APSDLOAD cannot get storage for

common conversion machine (CCM) IO Image Interface parameter block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

0502

Explanation: This abend is issued by module APSDDS— the current structured field is not an End Data Set (EDS). Structured fields other than EDS should be processed elsewhere. For more information about the EDS structured field, refer to *Mixed Object Document Content Architecture Reference*.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

050B

Explanation: This abend is issued by module APSDDS— the current structured field is not an End Job Header (EJH). Structured fields other than EJH should be processed elsewhere. For more information about the EJH structured field, refer to *Mixed Object Document Content Architecture Reference*.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0514

Explanation: This abend is issued by module APSDDS— the structured field encountered at the end of a transmission is not an End Transmission (ETM). Structured fields other than ETM should be processed elsewhere. For more information about the ETM structured field, refer to *Mixed Object Document Content Architecture Reference*.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

0515

Explanation: This abend is issued by module APSDDS— an incorrect field from Page Printing Writer was detected after an authorized End Transmission (ETM) structured field. For more information about the ETM structured field, refer to *Mixed Object Document Content Architecture Reference*.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0516

Explanation: This abend is issued by module APSDDS— the structured field encountered at the end of a data set header is not an End Data Set Header (EDH). Structured fields other than EDH should be processed elsewhere. For more information about the EDH structured field, refer to *Mixed Object Document Content Architecture Reference*.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0518

Explanation: This abend is issued by module APSDDS— the structured field in the internal message data set is not a Message Variable (MSV) structured field. For more information about the MSV structured field, refer to *Mixed Object Document Content Architecture Reference*.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0519

Explanation: This abend is issued by module APSDDS— APSDGET detected an error while trying to access the messages by reading the first record from an internal record data set.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

051A

Explanation: This abend is issued by module APSDDS— an attempt to build a record resource block (RRB) to access the internal message data set was unsuccessful.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

051B

Explanation: This abend is issued by module APSDDS— an attempt to delete a record resource block (RRB) used to access the internal message data set was unsuccessful. The RRB for the message data set cannot be dequeued.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

051D

Explanation: This abend is issued by module APSDDS— the structured field encountered at the end of a job trailer was not an End Job Trailer (EJT). Structured fields other than EJT should be processed elsewhere. For more information about the EJT structured field, refer to *Mixed Object Document Content Architecture Reference*.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

051E

Explanation: This abend is issued by module APSDDS— an incorrect reason code was issued with a return code that was set to INFORMATIONAL.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0520

Explanation: This abend is issued by module APSDDS— the I/O Error Manager action code was not valid.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0521

Explanation: This abend is issued by module APSDDS— an unrecognizable nonzero return code was issued to APSDDS.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0523

Explanation: This abend is issued by module APSDDS— after APSDDS notified the Page Printing Writer either to reposition or to stop processing a data set, module APSDGET issued an incorrect combination of return code and reason code.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0524

Explanation: This abend is issued by module APSDDS— APSQENQ issued a nonzero return code while building a Page Pending Queue (PPQ) entry.

System action: PSF processing ends abnormally.

0525

Explanation: This abend is issued by module APSDDS— the system function for OPEN of the PSF resource libraries did not succeed. This is the initial attempt at opening the PSF resource libraries.

System action: PSF processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, use the information provided by these messages to recover from the open failure before contacting the IBM Support Center or using your electronic link with IBM service for assistance.

0551

Explanation: This abend is issued by module APSDSECD— not enough virtual storage was available to build the SECPAPR control block to represent the bin information for the security definitions library.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0552

Explanation: This abend is issued by module APSDSECD— not enough virtual storage was available to build the narrow SECDATA control block to represent the narrow security definitions library paper information.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0553

Explanation: This abend is issued by module APSDSECD— not enough virtual storage was available to build the wide SECDATA control block to represent

the narrow security definitions library paper information.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0554

Explanation: This abend is issued by module APSDSECD— not enough virtual storage was available to build the paper table for security definitions library processing.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0555

Explanation: This abend is issued by module APSDSECD— not enough virtual storage was available to build the match table for security definitions library processing.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0556

Explanation: This abend is issued by module APSDSECD— an error occurred in the called module APSIBLD while PSF was trying to build the Record Resource Block (RRB) to facilitate access to the security definitions library.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the

REGION parameter used in the PSF startup procedure.

0557

Explanation: This abend is issued by module APSDSECD— an error occurred in the called module APSIDEQ while PSF was trying to delete the Record Resource Block (RRB). The RRB was built by APSIBDLD to facilitate access to the security definitions library.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0560

Explanation: This abend is issued by module APSDMSGF— PSF expected the current structured field to be a message variable (MSV) structured field, but it was not.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0570

Explanation: This abend is issued by module APSDECH— insufficient virtual storage was available to build the Translate Character String parameter area.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0601

Explanation: This abend is issued by module APSERRM— APSERRM detected unexpected values in sense bytes 0, 1, and 19 for an action code X'01' error (sense byte 2). This error is caused by a logic error in the I/O Error Manager, the Document Processor, or the Resource Manager subcomponent, or in the printer. For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a

printer, refer to the reference publication for the specific printer being used.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0602

Explanation: This abend is issued by module APSERRM— APSERRM detected unexpected values in sense bytes 0, 1, and 19 for an action code X'01' error (sense byte 2). The reason is probably that the data stream has extra or missing bytes, which cause the IPDS command boundaries to be lost. This error is caused by a data transmission problem or by a logic error in some piece of software or microcode in the data transmission path. For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, refer to the reference publication for the specific printer being used.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code results from a possible logic error in the printer microcode, the controller microcode, the NCP code, the VTAM code, or the PSF code. For assistance related to this error code, consult your service representative in the IBMSupport Center, or use your electronic link with IBMservice.

0604

Explanation: This abend is issued by module APSERRM— APSERRM detected an unrecoverable interface control check. Three tries to perform printer I/O failed. The problem might have resulted from the printer associated with the abend, or might have been caused by another device on the same channel.

System action: PSF processing ends abnormally.

System programmer response: To determine what device is causing the error, run the EREP report for each device on the channel. Notify your systems engineer that a hardware error might have occurred.

0605

Explanation: This abend is issued by module APSERRM— it indicates that the printer is reporting a unit check in response to the IPDS NOP command.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend could indicate a logic error in the printer microcode. Most likely, however, it is due to problems in communication between PSF and the printer. Such problems are usually caused by a mismatch between channel protocol and speed. Verify that the CNTLUNIT PROTOCL statement matches the protocol for which the printer is configured.

0606

Explanation: This abend is issued by module APSERRM— APSERRM detected that the printer is reporting an excessive number of NACKs in response to the I/O issued for performing recovery.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code could indicate a logic error in the printer microcode. Contact your service representative for the printer involved.

0615

Explanation: This abend is issued by module APSERRM— APSERRM detected a channel control check in the channel status word (CSW). This I/O error would be handled in an error recovery procedure (ERP), and APSERRM should not get control. The ERP should make five tries to restart the channel program on the failing channel control word (CCW) before this type of error is considered a permanent error and is reported to PSF.

System action: PSF processing ends abnormally.

System programmer response: To determine what device is causing the error, run the EREP report for each device on the channel. Notify your systems engineer that a hardware error might have occurred.

0616

Explanation: This abend is issued by module APSERRM— APSERRM detected a channel data check in the channel status word (CSW). This I/O error would be handled in an error recovery procedure (ERP), and APSERRM should not get control. The ERP should make five tries to restart the channel program on the failing channel control word (CCW) before this type of error is considered a permanent error and is reported to PSF.

System action: PSF processing ends abnormally.

System programmer response: To determine what device is causing the error, run the EREP report for each device on the channel. Notify your systems engineer that a hardware error might have occurred.

0617

Explanation: This abend is issued by module APSERRM— APSERRM detected that both the Channel Control bit and the Interface Control bit in the CSW set were set ON. The I/O Supervisor sets both of these bits ON to indicate that the Missing Interrupt Handler (MIH) timer has expired.

System action: PSF processing ends abnormally.

System programmer response: IML the printer again if it is not printing. Correct any outstanding interventions at the printer. Correct any printer hardware problems. If necessary, increase the MIH timer interval.

0620

Explanation: This abend is issued by module APSEATCD— APSEATCD detected an unexpected action code in the printer sense byte 2. The cause is one of these:

- The printer returned an undocumented or incorrect value in sense byte 2.
- APSEATCD detected an action code that the error recovery procedure (ERP) returned because it was unable to recover the device.
- Check for the presence of an OIS permanent error message (such as IOS000I with EQC [Equipment Check]). If one is found, PSF abended because the device is in a state such that PSF cannot communicate with it. If no IOS permanent error message is issued, this PSF abend reason code indicates a possible logic error.

System action: PSF processing ends abnormally.

System programmer response: For printer sense bytes 0 to 23, see PSF message APS717I on the operator console.

For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, refer to the reference publication for the specific printer being used. This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0621

Explanation: This abend is issued by module APSERRM— APSERRM detected at least one of these bits in the channel status word (CSW) set ON: Chaining Check, Program Check, or Protection Check.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

0622

Explanation: This abend is issued by module APSERRM— APSERRM detected that an incorrect Length bit was set in the channel status word (CSW).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0623

Explanation: This abend is issued by module APSERRM— APSERRM detected that least one of these bits in the channel status word (CSW) was set ON: Attention, or Status Modifier, or Control Unit End, or Busy, or Channel End, or Program-Control Interruption.

System action: PSF processing ends abnormally.

0624

Explanation: This abend is issued by module APSEMSG— APSEMSG detected an incorrect recovery code in the I/O Error Manager parameter area (PARMRCOD).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0625

Explanation: This abend is issued by module APSEATCD— APSEATCD detected that a hardware error had occurred in the printer's media-size sensors.

System action: PSF processing ends abnormally.

System programmer response: For information on how to correct the problem, refer to the reference publication for your printer.

0626

Explanation: This abend is issued by module APSERRM— APSERRM detected that the CSW Unit Status and Channel Status bytes were both equal to zero.

System action: PSF processing ends abnormally.

0627

Explanation: This abend is issued by module APSEMSG— APSEMSG detected that the Transaction ID at the time of error does not match the Transaction ID in the I/O Error Information Element. A logic error exists in one of these:
- The PSF Document Processor subcomponent that builds the I/O Information elements
- The Device Manager subcomponent that passes the address of the I/O Information elements to I/O Error Manager subcomponent
- The PSF I/O Error Manager subcomponent

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0628

Explanation: This abend is issued by module APSERRM— APSERRM detected an ECB completion code other than X'41', X'44', X'48', or X'7E'. APSERRM continues processing only on the above ECB completion codes. To interpret the ECB completion code, refer to *z/OS DFSMS Using Data Sets* or the debugging handbook for your operating system.

System action: PSF processing ends abnormally.

0629

Explanation: This abend is issued by module APSEATCD— an unrecognized recovery code was found during X'06' recovery.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBMSupport Center or use your electronic link with IBMservice for assistance regarding this error code.

0640

Explanation: This abend is issued by module APSE3820— APSE3820 detected incorrect values in sense bytes 0 and 1 for an action code X'09' error (sense byte 2). This error occurs either because the printer returned undocumented or incorrect values in sense bytes 0, 1, and 2, or because the PSF I/O Error Manager subcomponent contains a logic error. For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, consult the reference publication for the specific printer being used.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0643

Explanation: This abend is issued by module APSE3820— APSE3820 detected an unexpected action code in the printer sense byte 2. This error arises either because the printer returned an undocumented or incorrect value in sense byte 2, or because the PSF I/O Error Manager subcomponent contains a logic error. For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, refer to the reference publication for the specific printer being used.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0644

Explanation: This abend is issued by module APSE3820— APSE3820 received sense data with an action code of X'23', but with an undefined status code.

System action: PSF processing ends abnormally.

System programmer response: Re-IML the printer. If the problem persists, notify your systems engineer that a hardware error might have occurred.

0648

Explanation: This abend is issued by module APSEMSG— APSEMSG detected an incorrect value (task) in the parameter MSGTASK.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0649

Explanation: This abend is issued by module APSERRM— APSERRM could not get enough storage for the PSF I/O error queue.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0650

Explanation: This abend is issued by module APSERRM— APSERRM detected that either I/O Error Manager's I/O Error Queue was empty, or no error was recorded as having the highest priority when it was time to select the highest-priority error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0651

Explanation: This abend is issued by module APSEMSG— APSEMSG detected incorrect values in sense bytes 0 and 1 for an action code X'0C' error (sense byte 2). This error is caused by either of these:

1. The printer returned undocumented or incorrect values in sense bytes 0, 1, and 2.
2. The PSF I/O Error Manager subcomponent contains a logic error.

For more information about the definition of specific action codes and sense bytes, refer to *Intelligent Printer Data Stream Reference*. If the sense byte is unique to a printer, consult the reference publication for the specific printer being used.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0652

Explanation: This abend is issued by module APSEMSG— APSEMSG detected that neither Device Manager nor Document Processor provided an address to an I/O Error Information Element for a synchronous error. Either the Device Manager, the Document Processor, or the I/O Error Manager subcomponent contains a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0653

Explanation: This abend is issued by module APSEATCD— APSEATCD detected an action code X'17' (printer sense byte 2) unit check I/O error. Action code X'17' indicates either a permanent hardware error or an attempt to use a disabled mechanism in the printer.

System action: PSF processing ends abnormally.

System programmer response: In order to use the disabled mechanism, you must fix the problem and reactivate the mechanism. If a permanent hardware error has occurred, notify your systems engineer.

0654

Explanation: This abend is issued by module APSERRM— APSERRM detected the unit exception bit set in the channel status word (CSW). This I/O error should never occur while PSF is driving a printer in pagemode.

System action: PSF processing ends abnormally.

0655

Explanation: This abend is issued by module APSERRM— APSERRM received a synchronous I/O error after an asynchronous I/O error that had a negative acknowledgment record associated with it was received and placed in the I/O Error Manager's I/O Error Queue.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0656

Explanation: This abend is issued by module APSERRM— during SYNC order processing, APSERRM detected an incorrect action code (sense byte 2) in I/O Error Manager's I/O Error Queue.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0657

Explanation: This abend is issued by module APSERRM— APSERRM detected that the error transaction ID or the I/O Error Information Element address was changed while APSCSNIO was called to do synchronous I/O.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0658

Explanation: This abend is issued by module APSERRM— APSERRM detected a NACK after APSRROCK indicated a successful return. The PSF Resource Manager subcomponent contains a logic error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0659

Explanation: This abend is issued by module APSERRM— APSERRM received a zero return code from APSRROCK. APSRROCK is required to return either an informational return code, when successful, or an 8-or-higher return code, when unsuccessful. The PSF Resource Manager subcomponent contains a logic error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0660

Explanation: This abend is issued by module APSECUR— APSECUR received an incorrect function in the I/O Error Manager work area. The PSF I/O Error Manager subcomponent contains a logic error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0663

Explanation: This abend is issued by module APSERRM— APSERRM called APSCPRCT to determine the transaction in error and APSCPRCT was unable to do so.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error in either the microcode of the printer or in PSF. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0701

Explanation: This abend is issued by module APSRINIT— no space was available for the resource control table. PSF cannot proceed without sufficient storage space to build its basic control blocks.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0702

Explanation: This abend is issued by module APSRINIT— APSRINIT cannot get storage for the REGD list.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0703

Explanation: This ABEND is issued by module APSGGETM on behalf of APSRADOR— there was not enough memory available to build the APRACTPX interface structure to call APRACTEZ.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the

REGION parameter used in the PSF startup procedure.

0704

Explanation: This abend is issued by module APSRTTCP— APSRTTCP did not understand the code page object identification response.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0705

Explanation: This abend is issued by module APSORES— APSORES cannot get storage for a complete font resource object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

0706

Explanation: This abend is issued by module APSORES— APSORES cannot get storage for a code page resource object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

0707

Explanation: This abend is issued by module APSORES— APSORES cannot get storage for a data object font resource object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

0708

Explanation: This abend is issued by module APSRTTDF— APSRTTDF did not understand the data object font identification response.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0709

Explanation: This abend is issued by module APSORES— APSORES detected a failure from APSIBLD while building an RRB structure.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

070A

Explanation: This abend is issued by module APSOCFM— APSOCFM cannot get storage for a coded font map object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

070B

Explanation: This abend is issued by module APSORES— APSORES cannot get storage for an APRACTPX structure.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

070C

Explanation: This abend is issued by module APSOCFT— APSOCFT cannot get storage for a copy of the X'8B' triplet structure.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

070D

Explanation: This abend is issued by module APSOCFT— APSOCFT cannot get storage for an APRACTPX linked font structure.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

070E

Explanation: This abend is issued by module APSRTTCF— APSRTTCF detected a coded font activation failure.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

070F

Explanation: This abend is issued by module APSORES— APSORES cannot get storage for an APSIRRB structure.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

0711

Explanation: This abend is issued by module APSRNAME— APSRNAME received an incorrect resource type as an input parameter. This parameter was not recognized as a coded font, a page segment, an overlay, a form definition, a page definition, or a code page-font character set resource type.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0712

Explanation: This abend is issued by module APSRNAME— insufficient storage was available for an RLST entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0713

Explanation: This abend is issued by module APSRNAME— an Object Container is missing a required parameter REGD@.

System action: PSF stops processing abnormally.

0714

Explanation: This abend is issued by module APSODOF— APSODOF cannot get storage for an APROCRPX structure.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

0715

Explanation: This abend is issued by module APSOCPG— APSOCPG cannot get storage for an APRCPGPX structure.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

0716

Explanation: This abend is issued by module APSORES— APSORES cannot get storage for an APSGRIT structure.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

0717

Explanation: This ABEND is issued by module APSGGETM on behalf of a PSF module using the ESTRCreate method— there was not enough memory available to build an instance of the APSOESTR (EncodingString) class for Unicode encoding conversion.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0722

Explanation: This abend is issued by module APSRLOAD— the resource control block (RCB) contained a resource type other than a font, a code page or font character set, a page segment, an overlay, a form definition, or a page definition.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0723

Explanation: This abend is issued by module APSRLOAD— the module was unable to GETMAIN storage for a control block. PSF cannot proceed without sufficient storage space to build its basic control blocks.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0725

Explanation: This abend is issued by module APSODOR— a nested data object resource is being deleted when a dependent resource still exists.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0726

Explanation: This abend is issued by module APSRDEL— an object container has a dependent data object resource in the dependent chain.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0728

Explanation: This abend is issued by module APSRMPSG— this module was unable to GETMAIN storage for a control block. PSF cannot proceed without sufficient storage space to build its basic control blocks.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the

REGION parameter used in the PSF startup procedure.

0729

Explanation: This abend is issued by module APSRMPSG— APSRMPSG was called to process a Map Page Segment (MPS) structured field, but the printer does not support page segments.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0730

Explanation: This abend is issued by module APSRMPSG— the module was unable to GETMAIN storage for the APSRSWRK control block. PSF cannot proceed without sufficient storage space to build its basic control blocks.

System action: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0731

Explanation: This abend is issued by module APSRMFNT— insufficient storage was available for an RLST entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0734

Explanation: This abend is issued by module APSRMFNT— APSRMFNT was called to process a Map Coded Font (MCF) structured field, but the printer does not support coded fonts.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0736

Explanation: This abend was issued by module APSRMFNT— the module was unable to GETMAIN storage for the APSRSWRK control block. PSF cannot proceed without sufficient storage space to build its basic control blocks.

System action: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0738

Explanation: This abend is issued by module APSRMOVL— the module was unable to GETMAIN storage for a control block. PSF cannot proceed without sufficient storage space to build its basic control blocks.

System action: PSF processing ends abnormally. This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0739

Explanation: This abend is issued by module APSRMOVL— APSRMOVL was called to process a Map Medium Overlay (MMO) or Map Page Overlay (MPO) structured field, but the printer does not support overlays.

System action: PSF processing ends abnormally. This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0740

Explanation: This abend was issued by module APSRMOVL— the module was unable to GETMAIN storage for the APSRSWRK control block. PSF cannot proceed without sufficient storage space to build its basic control blocks.

System action: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0742

Explanation: This abend is issued by module APSRLRT— this failure occurs when APSRLRT calls the LOAD macro to load the PSF Resident Font Table (APSRFTBL) and the return code from the LOAD macro is not equal to zero.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0743

Explanation: This abend is issued by module APSRLRT— the module was unable to GETMAIN storage for a control block. PSF cannot proceed without sufficient storage space to build its basic control blocks.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0744

Explanation: This abend is issued by module APSRLRT— this failure occurs when APSRLRT calls the LOAD macro to load the optional user mapping table APSRNTGM and APSRGTNM. The return code from the LOAD is not equal to zero.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0751

Explanation: This abend is issued by module APRGRNEX— this failure occurs when APRGRNEX is called with an input pointer that does not point to storage that contains a valid Resource Control Block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0752

Explanation: This abend is issued by module APRGRNEX— the failure occurs when APRGRNEX detects that the attached printer supports the Distributed Print Function of InfoPrint Manager for Windows, and printer-resident fonts.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0771

Explanation: This abend is issued by module APSRDEL— APSRDEL received an incorrect input parameter. Valid input parameters are X'01' or X'02'.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0772

Explanation: This abend is issued by module APSRDEL— the reasonable resource-loading value (RRLV) for overlays was not set to zero.

System action: PSF processing end

s abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0773

Explanation: This abend is issued by module APSRDEL— APSRDEL is called to specifically delete the RCB for a resource that is still loaded in the printer. This is a logic error in PSF, because the RCB is used to track resources in the printer. The resource should have been deleted first.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0781

Explanation: This abend is issued by module APSRROCK— the input parameter pointer does not address a valid RCB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0782

Explanation: This abend is issued by module APSRROCK— Resource Manager delete flags indicate that two or more operations are in error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0783

Explanation: This abend is issued by module APSRROCK— printer support of an RRL printer order is insufficient to allow recovery from a printer error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0791

Explanation: This abend is issued by module APSRSRT— APSRSRT detected that the pointer to the resident code page section or resident font character set section of PSF Resident Font Table (APSRFTBL) does not point to valid storage containing the required font information.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

07A1

Explanation: This abend is issued by module APROAEEX— this failure occurs when APROAEEX is called with an input pointer that does not point to storage that contains a valid resource control block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

07A2

Explanation: This ABEND is issued by module APSGGETM on behalf of a PSF module using the HIDCreate method— there was not enough memory available to build an instance of the APSOHID (HAID) class for managing Host Assigned Printer IDs.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

07A4

Explanation: This ABEND is issued by a module using the HIDFreeHAID method— a HAID was being freed for a resource that was still loaded in the printer.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

07A8

Explanation: This abend is issued by module APSRMFNX— fonts mapped in a Map Coded Font (MCF) structured field for an Object Environment Group must also be mapped in an MCF in the Active Environment Group for the same page or overlay. This error should have been detected before APSRMFNT was called, but was not.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

07A9

Explanation: This abend is issued by module APSRMFNX— the module was unable to GETMAIN storage for a control block. PSF cannot proceed without sufficient storage space to build its basic control blocks.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

07B0

Explanation: This abend is issued by module APSRFIOM— an incorrect font code page or character set was processed. The code page or character set did not contain a X'5A' carriage control, or else a logic error exists in the Font Library Utility.

System action: The Font Library Utility ends abnormally.

System programmer response: Verify that the code page or character set is valid. Register 5 points to the member name, and register 6 points to the DD name. If the font member contains X'5A' carriage control, consult your service representative in the IBMSupport Center, or use your electronic link with IBMservice for assistance related to this error code.

07C0

Explanation: This abend is issued by module APSRMDOR— APSRMDOR cannot get storage for an RCB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

07C1

Explanation: This abend is issued by module APSORES— APSORES cannot get storage for an RLST entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

07C2

Explanation: This abend is issued by module APSRHAID— the module was unable to obtain a HAID for the current font because there is already 127 fonts required for the current page.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Reduce the number of fonts required for the current page to less than 127.

07C3

Explanation: This abend is issued by module APSORES— APSORES cannot get storage for an RRL entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

07C4

Explanation: This abend is issued by module APSODOR— not enough memory for OCRPX.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

07C5

Explanation: This abend is issued by module APSODOR— not enough memory for STGPZ.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the

REGION parameter in the PSF startup procedure.

07C6

Explanation: This abend is issued by module APSODOR— not enough memory for IOBSR LL item.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter in the PSF startup procedure.

0810

Explanation: This abend is issued by module APRIPSEX— the library type indicated in the library parameter from APSRNAME is unrecognizable.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0820

Explanation: This abend is issued by module APRIOBEX— the library type indicated in the library parameter from APSRNAME is unrecognizable.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0821

Explanation: This abend is issued by module APRIOBEX— there was not enough memory available to build the Object Container parameter areas.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0840

Explanation: This ABEND is issued by module APSGGETM on behalf of APRBRSEX— there was not enough memory available to build the local buffer for APRBRSEX.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0841

Explanation: This ABEND is issued by module APSGGETM on behalf of APRIOBEX— there was not enough memory available to build the APROCRPX, APROCAPX, or APSPSGPX interface structure for calling the common conversion machine (CCM).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0850

Explanation: This abend is issued by module APRINPEX— aPRINPEX detected an authorized structured field. All authorized structured fields should have been recognized and processed elsewhere. This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0851

Explanation: This abend is issued by module APRINPEX— APSDMSGF was called to retrieve records from the Message Data Set, but no record pointer was returned.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0852

Explanation: This abend is issued by module APRINPEX— an incorrect carriage control type was specified in the record resource block, APSIRRB. The only valid carriage control types are None, ANSI, and Machine. This is a logic error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0860

Explanation: This abend is issued by module APRDOCEX— data set type was not found.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0870

Explanation: This abend is issued by module APRSTGEX— the AFPCCM requested that space be allowed, but none was allowed successfully. The APSGGETM or APSXGETM macro might contain a problem.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0880

Explanation: This abend is issued by module APRBPGEX— the bin number supplied by the caller was not found in APRDATDX.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

0881

Explanation: This abend is issued by module APRBPGEX— the bin number supplied by the caller was not found in APSDYSEC.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0882

Explanation: This abend is issued by module APRBPGEX— the value of DCAERCID (number of copies printed) was odd, but the page was on a duplex sheet.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0883

Explanation: This abend is issued by module APRBPGEX— not enough storage available for triplet data.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0891

Explanation: This abend is issued by module APREPGEX— the duplex indicator in the parameter block is not valid.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0892

Explanation: This abend is issued by module APREPGEX— the location of the last input record for the page is not valid because it contains blanks.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A0

Explanation: This abend is issued by module APRMSGEX— no DAT pointer was passed to the common conversion machine (CCM). This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A1

Explanation: This abend is issued by module APRMSGEX— no FORMDEF pointer was passed to the common conversion machine (CCM). This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A2

Explanation: This abend is issued by module APRMSGEX— no PAGEDEF pointer was passed to the common conversion machine (CCM). This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A3

Explanation: This abend is issued by module APRMSGEX— no Object Stack pointer was passed to the common conversion machine (CCM). This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A4

Explanation: This abend is issued by module APRMSGEX— no Code Page pointer was passed to the common conversion machine (CCM). This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A5

Explanation: This abend is issued by module APRMSGEX— no Font Metric pointer was passed to the common conversion machine (CCM). This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A6

Explanation: This abend is issued by module APRMSGEX— the common conversion machine (CCM) encountered an unexpected parameter. This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service

representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A7

Explanation: This abend is issued by module APRMSGEX— the common conversion machine (CCM) cannot find the requested medium map. This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A8

Explanation: This abend is issued by module APRMSGEX— the common conversion machine (CCM) cannot find the requested data map. This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08A9

Explanation: This abend is issued by module APRMSGEX— the common conversion machine (CCM) cannot find the requested environment group.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AA

Explanation: This abend is issued by module APRMSGEX— an incorrect message identifier was passed by the Common Conversion Machine. This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AB

Explanation: This abend is issued by module APRMSGEX— an incorrect logic error identifier was passed by the Common Conversion Machine. This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AC

Explanation: This abend is issued by module APRMSGEX— after the common conversion machine (CCM) has called the shell to load a list of overlays, it looks at the overlay local IDs and matches them with the overlay IDs in the MMC structured field. If a match cannot be found, the error is a logic error, because the shell should not change the overlay local ID field.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AD

Explanation: This abend is issued by module APRMSGEX— the starting copy count provided by the shell to the common conversion machine (CCM) exceeds the total number of copies in the current medium map. This error would happen after PSF had to reposition for some reason.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AE

Explanation: This abend is issued by module APRMSGEX— the common conversion machine (CCM) passed an incorrect message ID to APRMSGEX.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08AF

Explanation: This abend is issued by module APRMSGEX— the common conversion machine (CCM) passed an incorrect logic error ID to APRMSGEX.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08B0

Explanation: This abend is issued by module APRMSGEX— the common conversion machine (CCM) was requested to use conditional processing information, but the page definition is not a conditional processing page definition.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08B1

Explanation: This abend is issued by module APRMSGEX— insufficient virtual storage was available to build the Translate Character String parameter area.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

08C0

Explanation: This abend is issued by module APRIPOEX— the overlay specified in the Include Page Overlay (IPO) structured field was not loaded in the printer.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08D1

Explanation: This abend is issued by module APRMSGEX— common conversion machine (CCM) was requested to activate an outline font character set or code page, but the printer does not support outline fonts. This is a logic error.

System action: PSF stops processing abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08D2

Explanation: This abend is issued by module APRMSGEX— common conversion machine (CCM) was requested to activate a font resource, but the global name was not provided or had an incorrect length specified. This is a logic error.

System action: PSF stops processing abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08D3

Explanation: This abend is issued by module APRMSGEX— no Frequent Font table or FGID Lookaside table pointer was passed to common conversion machine (CCM). This is a logic error.

System action: PSF stops processing abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08D4

Explanation: This abend is issued by module APRMSGEX— common conversion machine (CCM) has run out of its object stack area. This could be a data stream error or a logic error. A begin structured field must be followed by a matching end structured field in the data stream. If this requirement is not met, the CCM can run out of its object stack area.

System action: PSF processing ends abnormally.

System programmer response: Each begin structured field in the data stream must be followed by a matching end structured field. Check the data stream to ensure that this requirement is met. If it is not met, correct the data stream. If it is met, this error code indicates a logic error. If you believe the error is a logic error, consult your service representative in the IBMSupport Center for assistance, or use your electronic link with IBMservice.

System programmer response: This PSF abend reason code indicates a logic error. For assistance with this error code, consult you service representative in the IBMSupport Center, or use your electronic link with IBMservice.

08D5

Explanation: This abend is issued by module APRMSGEX— all bins reported back from the printer are either disabled or are inserter bins. As a result, no bins are available for printing and the current data set cannot be printed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08D6

Explanation: This abend is issued by module APRMSGEX— no record length was passed to common conversion machine (CCM) when processing an object container resource. This is a logic error.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBMSupport Center or use your electronic link with IBMservice for assistance regarding this error code.

08D7

Explanation: This abend is issued by module APRMSGEX— no Data Object Font (DOF) Descriptor triplet information was provided for a data object font activation request.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a PSF logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08D8

Explanation: This abend is issued by module APRMSGEX— no OID was specified for a data object resource or data object font component activation request.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a PSF logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

08D9

Explanation: This abend is issued by module APRMSGEX— no processing mode or scope information was provided for a color management resource (CMR) activation request.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a PSF logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error.

08DA

Explanation: This abend is issued by module APRMSGEX— color management resource (CMR) activation request was received, but the printer does not support CMRs.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a PSF logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error.

08E0

Explanation: This abend is issued by module APRTRNEX— an incorrect or missing parameter was passed by the module that called APRTRNEX.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0900

Explanation: Any LASI module— not enough storage was available for the interface data block (APSLIDB) for the message data set.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0901

Explanation: This abend is issued by module APLWIDS— not enough storage to add an element to a linked list.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0902

Explanation: Any LASI module— the record resource block (RRB) was not valid. The first four bytes must be RRB followed by a space.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0903

Explanation: Any LASI module— the record resource block (RRB) is not a message data set or an inline library.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0904

Explanation: Any LASI module— the record resource block (RRB) does not specify a FIRSTCALL or GET.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0905

Explanation: Any LASI module— an incorrect reason code was issued to LASI. The reason code is in register 2.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0906

Explanation: Any LASI module— an incorrect return code was issued to LASI. The return code is in register 2.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

090C

Explanation: Any LASI module— the record resource block (RRB) was not valid. The first four bytes must be RRB followed by a space.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

090D

Explanation: Any LASI module— the record resource block (RRB) does not specify a message data set or an inline library data set.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

090E

Explanation: Any LASI module— a request was received to process an output message data set or inline library. The record resource block (RRB) that was specified was neither an output message data set nor an inline library RRB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

090F

Explanation: Any LASI module— the producer issued an incorrect reason code to LASI.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0910

Explanation: Any LASI module— the producer issued an incorrect return code to LASI.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0911

Explanation: Any LASI module— the length of the logical record is greater than the maximum allowed.

System action: PSF processing ends abnormally.

System programmer response: The resource containing the error should be recreated following the Data Management guidelines for logical records. The logical record minimum is 5 bytes, and the logical record maximum is 32 760 bytes.

0912

Explanation: Any LASI module— the length of the logical record is less than the minimum allowed.

System action: PSF processing ends abnormally.

System programmer response: The resource containing the error should be recreated following the Data Management guidelines for logical records. The logical record minimum is 5 bytes, and the logical record maximum is 32 760 bytes.

0913

Explanation: Any LASI module— an incorrect request was received.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0919

Explanation: Any LASI module— the control block is not a record resource block (RRB). The first four bytes must be RRB followed by a space.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0920

Explanation: Any LASI module— the record resource block (RRB) is not type LIB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0921

Explanation: Any LASI module— an incorrect reason code was returned to LASI.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0922

Explanation: Any LASI module— an incorrect return code was returned to LASI.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0923

Explanation: This abend is issued by module APLRPNM— not enough storage for the CRL entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0924

Explanation: This abend is issued by module APSLRIDS— while an inline resource was being read from its buffers, the buffered inline resource was modified.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0926

Explanation: This abend is issued by module APSLRBS— the SYNADRLS macro discovered an incorrect save area chain.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0928

Explanation: This abend is issued by module APSLRBS— the function requested is not known by this module.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0930

Explanation: This abend is issued by module APSLRBS— the closing of a system library that had an extent error was unsuccessful.

System action: PSF processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0931

Explanation: This abend is issued by module APSLRBS— the reopening of a system library that had an extent error was unsuccessful.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0933

Explanation: This abend is issued by module APSLRBS— an unknown type of extent error has occurred. The error cannot be processed.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting

the IBM Support Center or before using your electronic link with IBM service.

0936

Explanation: This abend is issued by module APSLRBS— the data control block (DCB) points to the data extent block (DEB), but the DEB does not point back to the DCB.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0937

Explanation: This abend is issued by module APSLRBS— the data control block (DCB) does not point to a data extent block (DEB). The DEB ID must be X'F' in the low-order 4 bits of the DEBEBID.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0938

Explanation: This abend is issued by module APSLRBS— the FIND macro returned a nonzero return code in Register 15. This return code should always be zero.

System action: PSF processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0939

Explanation: This abend is issued by module APSLRPNM— GETDSAB system macro is not installed on the system.

System action: PSF processing ends abnormally.

System programmer response: Verify that the GETDSAB system macro is installed. If the GETDSAB system macro is installed, then this is a logic error. If the GETDSAB system macro is not installed, then the

system programmer should install it.

0940

Explanation: This abend is issued by module APSLCLOS— the function requested is not known by APSLCLOS.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0942

Explanation: This abend is issued by module APSLCLOS— the record resource block (RRB) does not point to an interface data block (APSLIDB). The IDB does not have IDB, followed by a space, as the first four characters of the block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0944

Explanation: This abend is issued by module APSLCUSS— function request input parameter is not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0945

Explanation: This abend is issued by module APSLCUSS— no file descriptor in the RRB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0946

Explanation: This abend is issued by module APSLCUSS— tried to close the file, but the file is being used.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0947

Explanation: This abend is issued by module APSLCUSS— the file descriptor is not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0948

Explanation: This abend is issued by module APSLMSG— a request was made to issue a message that is not supported by this module.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0949

Explanation: This abend is issued by module APSLUSSO— RRB is not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

094A

Explanation: This abend is issued by module APSLUSSO— function request input parameter is not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

094B

Explanation: This abend is issued by module APSLUSSO— tried to access the USERPATH library, but the USERPATH library is not available.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

094C

Explanation: This abend is issued by module APSLUSSO— the resource library requested was not found.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

094D

Explanation: This abend is issued by module APSLUSSO— the initialization of the RAU was not successful.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

094E

Explanation: This abend is issued by module APSLUSSO— IDB for USERPATH initialization is not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

094F

Explanation: This abend is issued by module APSLUSSO— CEEPIPI was unsuccessful in calling a C module.

System action: PSF processing ends abnormally.

System programmer response: Look in the accompanying message for the CEEPIPI return codes to determine if this is a logic error.

0950

Explanation: This abend is issued by module APSLUSSO— the RAU was not successful in adding a path name to the PSF search order.

System action: PSF processing ends abnormally.

System programmer response: Look in the accompanying message for the RAU return codes to determine if this is a logic error or a user error.

0951

Explanation: This abend is issued by module APSLUSSO— there is not enough storage for the RAUB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0952

Explanation: This abend is issued by module APSLUSSO— there is not enough storage for the path name work area.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0953

Explanation: This abend is issued by module APSLUSSO— there is not enough storage for the tracking area.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0954

Explanation: This abend is issued by module APSLINIT— not enough storage was available for the record resource block (RRB).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0955

Explanation: This abend is issued by module APSLINIT— not enough storage was available for the system object control block, APSLSOCB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0956

Explanation: This abend is issued by module APSLINIT— the APSLINIT message data set stack is empty. A dummy message data set should be stacked.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0957

Explanation: This abend is issued by module APSLINIT— an error occurred while the APSLINIT dummy message data set was being created. Not enough storage was available for a record resource block (RRB).

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0958

Explanation: This abend is issued by module APSLINIT— an APSLINIT error occurred while PSF was writing message APS516I or APS517I to the library access system interface (LASI) message data sets, using the APSIPUT macro. These are the message data sets used in later processing if not enough space is available to write an error or informational message to the current message data set.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0959

Explanation: This abend is issued by module APSLINIT— the module was unable to GETMAIN storage for the Library Link List. PSF cannot proceed without sufficient storage space to build its basic control blocks.

System action: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0960

Explanation: This abend is issued by module APSLPRSE— the function request input parameter is not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0961

Explanation: This abend is issued by module APSLPRSE— not enough storage for parsing buffer.

System action: PSF processing ends abnormally.

System programmer response: The REGION size

should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0962

Explanation: This abend is issued by module APSLPRSE— not enough storage for saving buffer.

System action: PSF processing ends abnormally.

System programmer response: The REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0963

Explanation: This abend is issued by module APSLUSSO— a CRL match could not be found.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0964

Explanation: This abend is issued by module APSLOPEN— the record resource block (RRB) is not valid. The control block ID must be RRB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0965

Explanation: This abend is issued by module APSLOPEN— not enough storage for STAT.

System action: PSF processing ends abnormally.

System programmer response: The REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0968

Explanation: This abend is issued by module APSLOPEN— the function requested is not known to this module.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0969

Explanation: This abend is issued by module APSLOPEN— an entry for a requested object was found in the system object control block, APSLSOCB, but the entry interface data block (APSLIDB) was not free. The entry was in use and must be disconnected before it is reused.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0973

Explanation: This abend is issued by module APSLOPEN— there is not enough storage for a linked list element.

System action: PSF processing ends abnormally.

System programmer response: The REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0974

Explanation: This abend is issued by module APSLOPEN— the data control block (DCB) points to the data extent block (DEB), but the DEB does not point back to the DCB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0975

Explanation: This abend is issued by module APSLOPEN— the data control block (DCB) does not point to a data extent block (DEB). The DEB ID must be X'F' in the low-order 4 bits of DEBEBID.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0976

Explanation: This abend is issued by module APSLOPEN— because the library had either an extent error or a nonzero BLDL return code, PSF tried to close it, but did not succeed.

System action: PSF processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0977

Explanation: This abend is issued by module APSLOPEN— PSF tried to reopen the library but was unable to do so, because the library had either an extent error or a nonzero BLDL return code.

System action: PSF processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0978

Explanation: This abend is issued by module APSLOPEN— a request to connect to a library was received but could not be performed because of one of these:

- The combination of the encoded ID and library type was not valid. The combination of the encoded ID and library type is used to indicate the library wanted. LASI did not recognize the combination specified. The encoded ID is found in the RRBEID field of the RRB. The library type is found in the RRB_LIBTYPE field of the RRB.

- There is not enough storage for control blocks or buffers.

System action: PSF processing ends abnormally.

System programmer response:

- If PSF issues messages to the operator console identifying the cause of the error, use these messages to correct the error.
- If there are no messages issued, this abend reason code might indicate a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0979

Explanation: This abend is issued by module APSLOPEN— an IGET was issued for a member from a USERLIB before the invocation of APSLDYNA for the USERLIB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0980

Explanation: This abend is issued by module APSLUSSO— not enough storage was available for a work area.

System action: PSF processing ends abnormally.

System programmer response: The REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0981

Explanation: This abend is issued by module APSLDYND— the system function for CLOSE of a user library did not succeed.

System action: PSF processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0982

Explanation: This abend is issued by module APSLDYND— the system function for the deconcatenation of a user library did not succeed.

System action: PSF processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting

the IBM Support Center or before using your electronic link with IBM service.

0983

Explanation: This abend is issued by module APSLDYND— the system function for the deallocation of a user library did not succeed.

System action: PSF processing ends abnormally.

System programmer response: If Data Management messages preceded by IEC are received, follow the procedures for your operating system before contacting the IBM Support Center or before using your electronic link with IBM service.

0987

Explanation: This abend is issued by module APSLDYNA— an internal request has been received to allocate and open a user library. The user libraries are already allocated and open.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0988

Explanation: This abend is issued by module APSLDYNA— the JCL keyword required for user library processing (USERLIB) was not specified. APSLDYNA should not have been called.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0990

Explanation: This abend is issued by module APSLIREP— the record resource block (RRB) is not valid. The control block ID is not RRB followed by a space.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0992

Explanation: This abend is issued by module APSLIREP— the record resource block (RRB) is not a message type (MSG). A message-type RRB is required for a repositioning request.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0993

Explanation: This abend is issued by module APSLIREP— the record resource block (RRB) is a message type (MSG). However, the RRB was not defined with a FIRSTCALL(PUT) macro, which is required for a repositioning request.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0994

Explanation: This abend is issued by module APSLIREP— the interface data block (APSLIDB) is not valid. The control block ID is not IDB. The address of the IDB is in register 2.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0996

Explanation: This abend is issued by module APSLIREP— the record resource block (RRB) does not point to an interface data block (IDB). The pointer is zero.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0998

Explanation: This abend is issued by module APSLIREP— a request was made to reposition the message data set. The repositioning information passed was not valid. The block of data requested was less than the minimum of zero.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

099A

Explanation: This abend is issued by module APSLIREP— a request was made to reposition the message data set, but the repositioning information passed was not valid. The requested block number was greater than the number of blocks of data in the message data set.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

099C

Explanation: This abend is issued by module APSLIREP— a request was made to reposition the message data set. However, the repositioning information passed was not valid. The requested number was less than 0, the lowest record number that can be requested.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

099E

Explanation: This abend is issued by module APSLIREP— a request was made to reposition the message data set. However, an incorrect buffer block was encountered when searching the chain. The buffer block ID should have been BUFB, but was not. Register 2 contains the address of the incorrect buffer block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

09A1

Explanation: This abend is issued by module APSLIREP— a request was made to reposition the message data set. However, an incorrect buffer descriptor word (BDW) was encountered in the buffer block. Register 2 contains the address of the incorrect BDW.

The incorrect BDW might have been caused by one of these:
- The BDW contains a negative length.
- The BDW flags are not all zero.
- The BDW contains a length of zero.
- The BDW contains a length less than 9, the minimum valid length.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09A3

Explanation: This abend is issued by module APSLIREP— a request was made to reposition the message data set, but an incorrect record descriptor word (RDW) was encountered in the buffer block. Register 2 contains the address of the incorrect RDW.

- The RDW contains a negative length.
- The RDW flags are not all zero.
- The RDW contains a length of zero.
- The RDW contains a length less than 9, the minimum valid length.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09A4

Explanation: This abend is issued by module APSLIREP— a request was made to reposition the message data set, but the record requested was not in the data set. The correct buffer block was found, but the record was not there. Register 2 contains the address of the buffer block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

09A5

Explanation: This abend is issued by module APSLIREP— the APSIBLD macro issued a nonzero return code when the message data set was being reinitialized.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09A6

Explanation: This abend is issued by module APSLIREP— the APSIPUT macro issued a nonzero return code on a STOP PROCESSING request.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09A7

Explanation: This abend is issue by module APSLRUSS— the function requested is not known to this module.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09A8

Explanation: This abend is issued by module APSLRUSS— the file cannot be read because nonblock option was used when it was opened.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09A9

Explanation: This abend is issued by module APSLRUSS— the file descriptor is not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09AA

Explanation: This abend is issued by module APSLRUSS— the read count is not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09AB

Explanation: This abend is issued by module APSLRUSS— a process is ignoring or blocking the READ request.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error or system error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09AC

Explanation: This abend is issued by module APSLRUSS— a buffer is not available.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error or system error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09AD

Explanation: This abend is issued by module APSLRUSS— the read request was interrupted by a signal.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error or system error. Contact your service representative in the IBM Support Center or use your electronic link with IBM

service for assistance regarding this error code.

09B1

Explanation: This abend is issued by module APSZCMND— the error occurred during the parsing of the CIB data processing command. The CIB contains the information specified in the MODIFY command for PSF.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09B2

Explanation: This abend is issued by module APSZCMND— the error occurred during the parsing of the CIB data processing printer name. The CIB contains the information specified in the MODIFY command for PSF.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09B3

Explanation: This abend is issued by module APSZCMND— the error is in traversing the CIB data-processing keyword. The CIB contains the information specified in the MODIFY command for PSF.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09B4

Explanation: This abend is issued by module APSZCMND— the error is in traversing the CIB data-processing parameter. The CIB contains the information specified in the MODIFY command for PSF.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09B8

Explanation: This abend is issued by module APSZTRCE— the printer name, in an internal command list, had a length of zero. A printer name is required.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09B9

Explanation: This abend is issued by module APSZTRCE— an incorrect parameter code was found in the internal command list.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09BB

Explanation: This abend is issued by module APSZWTO— the control block ID for the PWTO control block is incorrect.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C0

Explanation: This abend is issued by module APSZAFSA or APSZRSTR— the incorrect interface block ID is not IPB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09BC

Explanation: This abend is issued by module APSZWTO— a WTO macro call has failed.

System action: The PSF operator interface ends abnormally.

System programmer response: This PSF abend

reason code indicates that a WTO has failed. This could be caused by a PSF logic error or by the WTO. When the PSF operator interface is restarted, try the operator interface command that caused the abend again. If the problem persists, contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C1

Explanation: This abend is issued by modules APSZFORC and APSZQMAN— the incorrect interface request block ID is not IRB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C2

Explanation: This abend is issued by module APSZAFSA— the incorrect queue header ID is not QH.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C4

Explanation: This abend is issued by module APSZAFSA— the incorrect common control block ID is not CCB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C5

Explanation: This abend is issued by module APSZAFSA— the incorrect FSA level control block ID is not SAB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C6

Explanation: This abend is issued by module APSZAFSA— the incorrect FSA queue element ID is not SAE.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C7

Explanation: This abend is issued by module APSZAFSA— the incorrect FSS queue control block ID is not SAQ.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09C9

Explanation: This abend is issued by module APSZQMAN— an incorrect queue code was specified in the IRB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09CA

Explanation: This abend is issued by module APSZQMAN— an incorrect request code was specified in the IRB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09D5

Explanation: This abend is issued by module APSZRSTR— the MVS DETACH macro did not succeed in detaching APSZCMND.

System action: PSF processing ends abnormally.

System programmer response: Refer to your

operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

09D6

Explanation: This abend is issued by module APSZRSTR— the MVS FREEMAIN macro failed to release APSZCMND storage.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

09D7

Explanation: This abend is issued by module APSZRSTR— the MVS ATTACH macro was unsuccessful for module APSZCMND.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

09E0

Explanation: This abend is issued by module APSZAFSA— APSZAFSA found no free queue headers available.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09F0

Explanation: This abend is issued by module APSZFORC— APSZFORC received an incorrect command.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09F1

Explanation: This abend is issue by module APSZDTCP— an incorrect keyword was used to call this module.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09F2

Explanation: This abend is issued by module APSZDAFP— an incorrect parameter has been specified with a keyword.

System action: The PSF operator interface ends abnormally. The operator interface is restarted once

System programmer response: This abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

09FE

Explanation: This abend is issued by modules APSZCMND and APSZRSTR— the MVS QEDIT macro was unsuccessful.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

System action: PSF processing ends abnormally.

09FF

Explanation: This abend can be issued by any module— this abend is issued by the operator interface to end without a dump. This abend might reflect a problem, depending on the associated messages issued with it.

System action: The operator interface is ended. No system dump is generated.

System programmer response: See associated messages to determine whether this abend indicates a logic error.

0A00

Explanation: This abend is issued by module APSUEXTI— the GETMAIN macro failed for an exit control block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0A10

Explanation: This abend is issued by module APSUREXT— an incorrect Exit-type parameter was received.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A11

Explanation: This abend is issued by module APSUREXT— an incorrect Resource-type parameter was received.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A12

Explanation: This abend is issued by module APSUREXT— LASI's attempt to get the PDS concatenation resulted in an unrecoverable error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A20

Explanation: This abend is issued by module APSUREXT— the system has insufficient storage for the RLST entry.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is

processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0A21

Explanation: This abend is issued by module APSUREXT— LASI's attempt to get the data set label resulted in the return of an error.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A30

Explanation: This abend is issued by module APSUBLKB— this error occurred when an exit called APSUBLK; ECASABP was not valid. The exit either modified ECASABP or modified the storage pointed to by ECASABP.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A31

Explanation: This abend is issued by module APSUBLKB— this error occurred when an exit called APSUBLK; a valid APSGCCB could not be found. The exit modified PSF storage.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A40

Explanation: This abend is issued by module APSUPUTB— this error occurred when an exit called APSUPUT; ECASABP was not valid. The exit either modified ECASABP or modified the storage pointed to by ECASABP.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A41

Explanation: This abend is issued by module APSUPUTB— this error occurred when an exit called APSUPUT; a valid APSGCCB could not be found. The exit modified PSF storage.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A50

Explanation: This abend is issued by module APSUFSSI— the call to BPX1SDD to dub processes has failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the call to BPX1SDD failed. See the return code and reason code in the accompanying message for more details.

0A51

Explanation: This abend is issued by module APSUFSSI— the DELETE of an installation exit routine failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A52

Explanation: This abend is issued by module APSUFSSI— the GETMAIN macro failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0A53

Explanation: This abend is issued by module APSUEXTI— the DELETE macro failed when attempting to delete an installation exit routine.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A54

Explanation: This abend is issued by module APSUEXIT— the input parameter to APSUEXIT is not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A55

Explanation: This abend is issued by module APSUNEXT— the input parameter to APSUNEXT is not valid.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A58

Explanation: This abend is issued by module APSUEXTI— APSUEXTI received a nonzero return code from the invocation of the CEEPIPI to add an entry. For further information, see message APS097I, issued before this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Make sure that any assembler installation exits are named correctly and are link-edited as assembler exits. If the exits are correct, this PSF abend code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A59

Explanation: This abend is issued by module APSUEXIT— APSUEXIT received a nonzero return code from the invocation of the CEEPIPI to invoke as a subroutine. For further information, see message APS7000I, issued before this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A5A

Explanation: This abend is issued by module APSUNEXT— APSUNEXT received a nonzero return code from the invocation of the CEEPIPI to invoke as a subroutine. For further information, see message APS7000I, issued before this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A5B

Explanation: This abend is issued by module APSUREXT— APSUREXT received a nonzero return code from the invocation of the CEEPIPI to invoke as a subroutine. For further information, see message APS7000I, issued before this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A5C

Explanation: This abend is issued by module APSPPNST— the load of the CEEPIPI routine failed.

System action: PSF processing ends abnormally.

System programmer response: Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A5D

Explanation: This abend is issued by module APSPPNST— APSPPNST received a nonzero return code from the invocation of the CEEPIPI to initialize for subroutines. For further information, see message APS096I, issued before this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend

code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A5E

Explanation: This abend is issued by module APSPPNST— APSPPNST received a nonzero return code from the invocation of the CEEPIPI to add an entry. For further information, see message APS097I, issued before this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Make sure that any assembler installation exits are named correctly and are link-edited as assembler exits. If the exits are correct, this PSF abend code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0A5F

Explanation: This abend is issued by module APSUEXIT— APSUEXIT determined that both 3800 Line-Mode Conversion and Line Mode Migration processing were activated for the same data set. For further information, see message APS7002I issued before this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend indicates an installation exit error. Change your exits so both 3800 Line-Mode Conversion and Line Mode Migration processing are not active for the same data set.

0A60

Explanation: This abend is issued by module APSUEXIT— APSUEXIT determined that both Line Mode Migration processing for a 4245 FCB and Line Mode Migration processing for a 4248 FCB were activated for the same data set. For further information, see message APS7003I issued before this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend indicates an installation exit error. Change your exits so Line Mode Migration processing for a 4245 FCB or Line Mode Migration processing for a 4248 FCB are active for a data set, but not both.

0B00

Explanation: This abend is issued by module APSIBLD— a request was received to create an input data set from an output data set, but the data set passed is not an output internal data set.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B01

Explanation: This abend is issued by module APSIBLD— the push-down stack does not point to a valid record resource block (RRB). The first four bytes of the area pointed to by the stack are not RRB followed by a space.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B02

Explanation: This abend is issued by module APSIBLD— the RRBAD parameter on the APSIBLD macro does not point to a record resource block (RRB). The first four bytes must be RRB followed by a space.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B04

Explanation: This abend is issued by module APSIDEQ— the push-down stack does not point to a valid record resource block (RRB). The first four bytes of the area pointed to by the stack must be RRB followed by a space.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B10

Explanation: This abend is issued by module APSIGET— the record resource block (RRB) does not point to an RRB. The first four bytes must be RRB followed by a space.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B11

Explanation: This abend is issued by module APSIPUT— the record resource block (RRB) does not point to an RRB. The first four bytes must be RRB followed by a space.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B12

Explanation: This abend is issued by module APSIGET— the RRB used for an APSIGET QUERY has been previously used for an APSIGET or APSIPUT without re-invocation of APSIBLD.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0B13

Explanation: This abend is issued by module APSIGET— an APSIGET using an RRB that is not TYPE(LIB) has been issued.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0C00

Explanation: This abend is issued by module APSMMSG— the return reason code specified in the DUMP JCL has been encountered.

System action: PSF processing ends abnormally.

System programmer response: This abend occurred because it was requested by the user. To cancel this abend, correct the Printer Inventory or PRINTDEV parameter.

0C01

Explanation: This abend is issued by module APSMMSG— no conversion flag was set for the variable insert currently being processed by this routine.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0C02

Explanation: This abend is issued by module APSMMSG— a message ID (MSGID) was not valid. The MSGID either was equal to zero or was not in the range of the message index in the message text module.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0C03

Explanation: This abend is issued by module APSMMSG— the TRACE keyword of the invocation of APSXMSG had an incorrect value taken from a routine variable.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0C20

Explanation: This abend is issued by module APSMMSG— the message count specified in the Dump parameter has been matched.

System action: PSF processing ends abnormally.

System programmer response: This abend occurred because it was requested by the user. To cancel this abend, correct the Dump parameter in the Printer Inventory or in the PRINTDEV.

0C22

Explanation: This abend is issued by module APSMMSG— a SEND FSA Initiated Termination (FIT) requested by the PSF message exit has failed.

System action: PSF processing ends abnormally.

System programmer response: To bypass this abend, do not request a FIT in the message exit.

0C30

Explanation: This abend is issued by module APSHMPMF— APSHMPMF could not get storage to create a message string object.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

0C31

Explanation: This abend is issued by module APSHDWPF or APSHMPMF— APSHDWPF or APSHMPMF could not get storage to create a string buffer object.

System action: AFP Download Plus processing ends abnormally.

System programmer response: Increase the REGION parameter in the AFP Download Plus startup procedure.

0D00

Explanation: This abend is issued by module APSGGETM— APSGGETM received an incorrect parameter list.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D01

Explanation: This abend is issued by module APSGGETM— a logic error occurred because an element was not available in a new storage block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D03

Explanation: This abend is issued by module APSGGETM— a logic error occurred because an element was not available in an initial storage block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D04

Explanation: This abend is issued by module APSGGETM— a logic error occurred because an element was not available in a new chain of storage blocks.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D05

Explanation: This abend is issued by module APSGGETM— APSGGETM received a nonzero return code from the system GETMAIN macro.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D06

Explanation: This abend is issued by module APSGGETM— a logic error occurred because no storage was available in a new pseudo-subpool storage block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your

electronic link with IBM service for assistance regarding this error code.

0D07

Explanation: This abend is issued by module APSGGETM— a request for page-fixed storage crosses a 4K boundary.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D08

Explanation: This abend is issued by module APSGGETM— a PSF logic error occurred because a pseudo-subpool storage block did not exist.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D09

Explanation: This abend is issued by module APSGGETM— a PSF logic error occurred because a pseudo-subpool chain did not exist.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D0A

Explanation: This abend is issued by module APSGGETM— a request for page-fixed storage failed; nonzero return was received from the system page-fixing routine.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0D0B

Explanation: This abend is issued by module APSGGETM— the GETMAIN macro for the storage management control block failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D10

Explanation: This abend is issued by module APSGFREE— an incorrect type of FREEMAIN request was received.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D11

Explanation: This abend is issued by module APSGFREE— a logic error occurred because an element to be freed was not in use.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D12

Explanation: This abend is issued by module APSGFREE— a logic error occurred because no pseudo-subpool storage blocks existed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D13

Explanation: This abend is issued by module APSGFREE— a logic error occurred because no element storage blocks existed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D14

Explanation: This abend is issued by module APSGFREE— a logic error occurred because the correct element storage-block chain could not be found.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D15

Explanation: This abend is issued by module APSGFREE— a logic error occurred because the element address was not within the bounds of any of the storage blocks.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D16

Explanation: This abend is issued by module APSGFREE— a page free of specified storage failed; a nonzero return was received from the PGSER macro.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system macros to determine why the macro failed or returned unexpected results.

0D17

Explanation: This abend is issued by module APSGFREE— a logic error occurred because the storage-block chain for the specified pseudo subpool could not be found.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D18

Explanation: This abend is issued by module APSGFREE— APSGFREE received a nonzero return from the system FREEMAIN macro.

System action: PSF processing ends abnormally.

System programmer response: Refer to your operating system publication that explains system determine why FREEMAIN failed or returned unexpected results. If FREEMAIN reported that the storage requested to be freed is not owned by PSF, this would indicate a PSF logic error. If it is a logic error, contact your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance.

0D19

Explanation: This abend is issued by module APSGFREE— the free element counter for the storage management control block structure indicates how many free elements are available. A logic error occurred when a free element was expected, but not found, in the storage management control block structure.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D20

Explanation: This abend is issued by APSDECH and all APSXRETN users— Any module that invokes APSXRETN and APSDECH abends with this reason code whenever the return reason code specified on the Dump parameter is encountered.

System action: PSF processing ends abnormally.

System programmer response: This abend occurred because it was requested by the user. To cancel this abend, correct the Dump parameter in the Printer Inventory or on the PRINTDEV statement.

0D21

Explanation: This abend is issued by module APSGGETM— the element size specified in the invocation of APSXGETM is too large.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D31

Explanation: This abend is issued by module APSGFSAI— a GETMAIN for storage below the 16MB line failed. The storage was needed to contain save/autodata areas.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D32

Explanation: This abend is issued by module APSGFSAI— a GETMAIN for storage above the 16MB line failed. The storage was needed to contain save/autodata areas.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D33

Explanation: This abend is issued by module APSGFSAI— a GETMAIN for the data encapsulation area failed. The storage was requested from a key zero subpool in order to support encapsulation.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D41

Explanation: This abend is issued by module APSGFSSI— a GETMAIN for storage below the 16MB line failed. The storage was needed to contain a copy of the module address table.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or

step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

Note: Reason codes 0E00 through 0E7F are used to end PSF without a dump and without message APS050I. These codes do not represent logic errors.

0D54

Explanation: This abend is issued by module APSGMBR— the input parameters to APSGMBR were not a valid combination.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a probable PSF logic error. Contact your service representative in the IBM support center or use your electronic link with IBM service for assistance regarding this error code.

0D56

Explanation: This abend is issued by module APSGCINT— CEEPIPI failed to load.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D57

Explanation: This abend is issued by module APSGCINT— CEEPIPI failed to be initialized for subroutines.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D58

Explanation: This abend is issued by module APSGCINT— not enough storage for APSGCPCB.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D60

Explanation: This abend is issued by module APSGCET— the z/OS Conversion Facility called by APSGCET indicated an abend.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D70

Explanation: This ABEND is issued by module APSGGETM on behalf of a PSF module using the ULCRCreate method— there was not enough memory available to build an instance of the APSOULCR (UniversalLinker) class for list management.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D71

Explanation: This ABEND is issued by module APSGGETM on behalf of a PSF module using the ULCRAdd2Head, ULCRAdd2Tail, ULCRInsertBefore, or ULCRInsertAfter methods— there was not enough memory available to build an instance of the APSOUCLR (LinkListElement) class for list management.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D77

Explanation: This abend is issued by module APSHFCRT— the system has insufficient storage for the RGF object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or

step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D78

Explanation: This abend is issued by module APSHFJOF— BPX1WRT failed to write to the UNIX file system file.

System action: PSF processing ends abnormally.

System programmer response: Refer to the accompanying message to determine the cause of the BPX1WRT error and how to correct it. Correct the error and run the job again. If the error cannot be corrected with the information in the accompanying message, this PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D79

Explanation: This abend is issued by module APSHFJOF— BPX1OPN failed to open a UNIX file system file.

System action: PSF processing ends abnormally.

System programmer response: Refer to the accompanying message to determine the cause of the BPX1OPN error and how to correct it. Correct the error and run the job again. If the error cannot be corrected with the information in the accompanying message, this PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D80

Explanation: This abend can be issued by any module— the system has insufficient memory for the UFO object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D81

Explanation: This abend is issued by APSHFJOF— the JOF object could not be created.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend

reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or user your electronic link with IBM service for assistance regarding this error code.

0D82

Explanation: This abend is issued by module APSHFCRT— the system has insufficient storage for the MDF object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D83

Explanation: This abend is issued by APSHFCRT— the MDF object could not be created.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D84

Explanation: This abend is issued by module APSHFCRT— BPX1OPN failed to open a UNIX file system file.

System action: PSF processing ends abnormally.

System programmer response: Refer to the accompanying message to determine the cause of the BPX1OPN error and how to correct it. Correct the error and run the job again. If the error cannot be corrected with the information in the accompanying message, this PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D85

Explanation: This abend is issued by module APSHFJOF— the system has insufficient storage for a 32K write buffer.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or

step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D86

Explanation: This abend can be issued by any module— the system has insufficient memory for the UNIX file system file status control block.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D87

Explanation: This abend is issued by APSHFCRT— the RGF object could not be created.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D88

Explanation: This abend is issued by module APSHFCRT— BPX1OPN failed to open a UNIX file system file.

System action: PSF processing ends abnormally.

System programmer response: Refer to the accompanying message to determine the cause of the BPX1OPN error and how to correct it. Correct the error and run the job again. If the error cannot be corrected with the information in the accompanying message, this PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D89

Explanation: This abend is issued by APSHFCRT— the RVF object could not be created.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D90

Explanation: This abend can be issued by any module— the system has insufficient memory for the UDO object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D91

Explanation: This abend can be issued by any module— the system has insufficient memory for the PFN object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D92

Explanation: This abend can be issued by any module— the system has insufficient memory for the PPN object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D93

Explanation: This abend can be issued by any module— creation of a UDO object failed with an incorrect path name or size.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D94

Explanation: This abend is issued by module APSGDEC— APSGDEC cannot get storage for a DEC object

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the JOB or EXEC JCL statement containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D95

Explanation: This abend is issued by module APSGFXL— APSGFXL cannot get storage for an FXL object

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the JOB or EXEC JCL statement containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0D96

Explanation: This abend is issued by module APSGFXL— APSGFXL cannot interpret an input parameter.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0D97

Explanation: This abend is issued by module APSHGDDS— APSHGDDS cannot interpret an input parameter.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error.

0D98

Explanation: This abend can be issued by any module— the system has insufficient memory for the ENC object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0DA0

Explanation: This abend is issued by multiple PSF modules— PSF cannot get storage for an STR object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the JOB or EXEC JCL statement containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0DA1

Explanation: This abend can be issued by any module— incorrect parameters were passed to the ENC method.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0DA2

Explanation: This abend can be issued by any module— the TIME macro failed.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0DA3

Explanation: This abend is issued by module APSJCK— the system has insufficient storage for the SDS object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0DA4

Explanation: This abend is issued by module APSJCK— the system has insufficient storage for the CPR object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0DA5

Explanation: This abend is issued by module APSJCK— the system has insufficient storage for the tokenization buffer for the CPR object.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0DA6

Explanation: This abend is issued by module APSGSTR— APSGSTR cannot interpret an input parameter.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0DA7

Explanation: This abend can be issued by any module— the system has insufficient memory for the UFO 64K write buffer.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0DA8

Explanation: This abend can be issued by any module— BPX1WRT failed to write to the UNIX file system file.

System action: PSF processing ends abnormally.

System programmer response: Refer to the accompanying message to determine the cause of the BPX1WRT error and how to correct it. Correct the error and run the job again. If the error cannot be corrected with the information in the accompanying message, this PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0DA9

Explanation: This abend can be issued by any module— there is an error in calculating the write value.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0DAA

Explanation: This abend is issued by module APSHFCRT— There is not enough storage for the MDF compression output buffer.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates that the REGION size should be increased. Increase the REGION size in the AFP Download Plus startup procedure.

0DAB

Explanation: This abend is issued by module APSHFCRT— There is not enough storage for the RGF compression output buffer.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates that the REGION size should be increased. Increase the REGION size in the AFP Download Plus startup procedure.

0DB0

Explanation: This abend is issued by modules APSHDCLS, APSHDWPF, ASPHPDVP, APSHFCRT, and APSHFJOF— A compression object that is not valid has been passed to a method.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0DB1

Explanation: This abend is issued by modules APSHDCLS, APSHDWPF, ASPHPDVP, APSHFCRT, and APSHFJOF— A compression call sequence error has occurred.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0DB2

Explanation: This abend is issued by module APSHFCRT— There is not enough storage for the compression object.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates that the REGION size should be increased. Increase the REGION size in the AFP Download Plus startup procedure.

0DB3

Explanation: This abend is issued by modules APSHFCRT and APSHFJOF— There is not enough storage for the compression hash table.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates that the REGION size should be increased. Increase the REGION size in the AFP Download Plus startup procedure.

0DB4

Explanation: This abend is issued by modules APSHFDST, APSHDCLS, APSHDWPF, and APSHPDVP— A hash table pointer that is not valid has been passed to a method.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0DB7

Explanation: This abend is issued by modules APSHDCLS, APSHDWPF, APSHFCRT, APSHFJOF, and APSHPDVP— A compression method has been called after a compression error.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0DB8

Explanation: This abend is issued by modules APSHDCLS and APSHDWPF— An input buffer pointer or size that is not valid has been passed to a method.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0DB9

Explanation: This abend is issued by modules APSHFCRT and APSHFJOF— An output buffer pointer or size that is not valid has been passed to a method.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E00

Explanation: This abend is issued by module APSCSNA— PSF was ended because of a return code from the Page Printer Communications Component (PPCC) APPC_INITIALIZE macro. Message APS922I describes the condition that caused this abend. Depending on the return code (described in message APS922I), this might be a problem.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in the associated APS922I message to correct this error.

0E01

Explanation: This abend is issued by module APSCSNA— PSF was ended because of a return code from the Page Printer Communications Component (PPCC) APPC_ACTIVATE macro. Message APS922I describes the condition that caused this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in the associated APS922I message to correct this error.

0E02

Explanation: This abend is issued by module APSCSNA— PSF ended because the attempt limit was reached while PSF was attempting to activate a session with a Systems Network Architecture-attached printer. Message APS922I describes the condition that caused this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in the associated APS922I message to correct this error.

0E03

Explanation: This abend is issued by module APSCSNA— PSF ends because of a return code from the Page Printer Communications Component (PPCC) APPC_DEALLOCATE macro. Message APS922I describes the condition that caused this abend.

System action: PSF processing ends abnormally.

System programmer response: Use the information contained in the associated APS922I message to correct this error.

0E04

Explanation: This abend is issued by module APSCSNA— PSF ends because of a return code from the Page Printer Communications Component (PPCC) APPC_ALLOCATE macro. Message APS922I describes the condition that caused this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in the associated APS922I message to correct this error.

0E05

Explanation: This abend is issued by module APSCSNA— PSF ends because the attempt limit was reached while PSF was attempting to allocate a Systems Network Architecture-attached printer. Message APS922I describes the condition that caused this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in the associated APS922I message to correct this error.

0E08

Explanation: This abend is issued by module APSCSNA— PSF ends either because of a return code from a Page Printer Communications Component (PPCC) verb or because of a Failure action = Stop in the Printer Inventory or Failure = Stop on the PRINTDEV statement. Message APS922I describes the condition that caused this abend.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in the associated APS922I message to correct this error.

0E09

Explanation: This abend is issued by module APSCCLR— PSF ends because a FAILURE=STOP (a PRINTDEV JCL parameter) was specified and the printer is inoperative.

System action: PSF processing ends abnormally. No system dump is generated.

0E0A

Explanation: This abend is issued by module APSCCLR— PSF ends because Disconnect action = Stop was specified in the Printer Inventory or TIMEOUT = STOP was specified on the PRINTDEV statement and the disconnect interval has expired.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This abend occurred because it was requested by the user. To cancel this abend, correct the Printer Inventory or PRINTDEV parameter.

0E0C

Explanation: This abend is issued by module APSCINIT— APSCINIT detected an error when PSF attempted to load the Page Printer Communications Component (PPCC). The PPCC load module is probably not in an authorized library.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Ensure that PPCC is in an authorized library.

0E0E

Explanation: This abend is issued by module APSCSNA— a return code of OK(DATA) or HALTREQD(DATA) was returned from the RECEIVE and WAIT verb, but OK(SEND) or HALTREQD(SEND) was expected.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E10

Explanation: This abend is issued by module APSCTCP— PSF ends because a TCP/IP end return code was received and Failure action = stop was specified in the Printer Inventory or FAILURE = STOP was specified on the PRINTDEV statement.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in message APS934I to correct this error.

0E11

Explanation: This abend is issued by module APSCTCP— PSF ends because a TCP/IP end return code with no attempt to resend was received.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in message APS934I to correct this error.

0E12

Explanation: This abend is issued by module APSCTCP— PSF ends because an end return code was received from APSNLINK

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in message APS934I to correct this error.

0E13

Explanation: This abend is issued by module APSCTCP— PSF ends because FAILURE=STOP was specified on the PRINTDEV parameter on the JCL, and an end return code was received from APSNLINK.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in message APS934I to correct this error.

0E14

Explanation: This abend is issued by module APSCTCP— PSF ends because TCPLINK reached its attempt limit calling APSNLINK.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Use the information contained in message APS934I to correct this error.

0E19

Explanation: This abend is issued by module APSCIPRT— APSCIPRT determined that no input-media bins from which to print pages are available. The printer is therefore unusable.

System action: PSF processing ends abnormally. No system dump is generated.

0E20

Explanation: This abend is issued by module APSCTCP, APSCCTME, APSNRM, APSNSSND— the connect interval timer expired before connection with the printer was successful.

System action: PSF issues message APS939I. PSF processing ends abnormally.

System programmer response: See message APS939I.

0E21

Explanation: This abend is issued by module APSDDS— a default or separator page definition or form definition could not be loaded.

System action: PSF processing ends abnormally. No system dump is generated.

0E22

Explanation: This abend is issued by module APRBPGEX— a default object container resource for the printer (for example, COMSETUP) was not specified in the PRINTDEV but was required.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: Specify the name of the object container resource on the OUTPUT statements for the job header, the data set header, the message data set, and the job trailer. Also, ensure that all print jobs identify the object container resource to be used.

0E23

Explanation: This abend is issued by module APRBPGEX— a default or separator object container resource for the printer (for example, COMSETUP) could not be loaded.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: PSF issues additional messages to the operator console, identifying the cause of the error. Correct the error identified by those messages.

0E24

Explanation: This abend is issued by module APSDDGB— PSF was stopped because the group level medium finishing request fell outside of the allowed range.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact

your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E30

Explanation: This abend is issued by module APSEATCD— PSF was ended because the printer became inoperative.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend reason code indicates a possible hardware error. Contact your systems engineer for assistance regarding this error code.

0E31

Explanation: This abend is issued by module APSE3820— PSF was ended because the printer became inoperative.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend reason code indicates a possible hardware error. Contact your systems engineer for assistance regarding this error code.

0E32

Explanation: This abend is issued by module APSERRM— PSF was ended because the printer became inoperative.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend reason code indicates a possible hardware error. Contact your systems engineer for assistance regarding this error code.

0E33

Explanation: This abend is issued by module APSERRM— PSF attempted to do I/O to a printer that was assigned (reserved) to another system.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend reason code indicates a probable incorrect operational procedure. Refer to the associated APS445I message to correct the error.

0E34

Explanation: This abend is issued by module APSERRM— PSF attempted to do I/O to a printer that was not assigned (reserved) to the system.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: The PSF abend reason code indicates a probable incorrect operational procedure. Refer to the associated APS479I message to correct this error.

0E35

Explanation: This abend is issued by module APSEATCD— PSF attempted to do I/O to a printer that was not assigned (reserved) to the system.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend reason code indicates a probable incorrect operational procedure. Refer to the associated APS445I message to correct this error.

0E36

Explanation: This abend is issued by module APSEATCD— PSF attempted to do I/O to a printer that was assigned (reserved) to another system.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend reason code indicates a probable incorrect operational procedure. Refer to the associated APS479I message to correct this error.

0E50

Explanation: This abend is issued by module APSXWAIT— the operator has issued an MVS MODIFY FORCE command to force shutdown of a printer.

System action: PSF issues message APS627I and then ends the Functional Subsystem Application (FSA) for the printer by issuing this abend.

System programmer response: No response required.

0E51

Explanation: This ABEND is issued by module APSGGETM on behalf of a PSF module using the APSOESTR (EncodingString) class methods— there was an unexpected return from the system Unicode conversion routines. Message APS4401I was produced before PSF issued the ABEND and contains the reason code that describes the error.

System action: PSF processing ends abnormally. No system dump is generated.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E80

Explanation: This abend is issued by module APS4MLMC— a GETMAIN for virtual storage for the 3800 line mode conversion subcomponent failed. The storage was needed for control blocks used to support the 3800 line mode conversion function.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0E82

Explanation: This abend is issued by module APS4MCLS— an incorrect option was specified in the invocation of APS4MCLS. Valid options are CLOSEDCB, CLOSE, and ABNORMAL.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E85

Explanation: This abend is issued by module APS8LMM— a GETMAIN for virtual storage used for Line Mode Migration processing failed. The storage was needed for control blocks.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates the REGION size specified in the PSF startup procedure should be increased.

0E90

Explanation: This abend issued by module APSNINIT— a GETMAIN for virtual storage for the Sockets Extended interface task work area failed.

System action: PSF processing ends abnormally.

System programmer response: Increase the size of

the REGION parameter used in the startup procedure for PSF.

0E91

Explanation: This abend is issued by module APSNLINK— the INITAPI for the Sockets Extended interface failed.

System action: PSF processing ends abnormally.

System programmer response: This abend code might indicate that TCP/IP has not been started. Ensure that TCP/IP has been started. TCP/IP job name used by PSF must match the TCP/IP job name running on the system. Refer to *PSF for z/OS: Customization* for information about configuring the TCP/IP JOBNAME parameter of PSF. If this reason does not apply, consult your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance related to this error code.

0E92

Explanation: This abend is issued by module APSNLINK— the IP address specified in the Printer Inventory or on the PRINTDEV statement of the startup procedure for PSF is not valid. It is not a valid dotted decimal address or a valid host name.

System action: PSF processing ends abnormally.

System programmer response: Ensure that the IP address is correct, and restart the PSF FSA.

0E93

Explanation: This abend is issued by module APSNLINK— an incorrect character was detected by the verification routine for the IP address.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E94

Explanation: This abend is issued by module APSNSEND— APSNSEND detected an incorrect message type.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E96

Explanation: This abend is issued by module APSNLINK— the printer issued an incorrect response after an attempt to assign the printer to the PSF FSA.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code results from a possible logic error in the microcode of the printer. Contact your hardware service provider for assistance regarding this error code.

0E97

Explanation: This abend is issued by module APSNSSEL— APSNSSEL detected an incorrect priority operation.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E98

Explanation: This abend is issued by module APSNINIT— the INITAPI could not be completed. For further information, see message APS948I, issued before this abend.

System action: PSF processing ends abnormally.

System programmer response: For the appropriate response, see message APS948I, issued before this abend.

0E9A

Explanation: This abend is issued by module APSNSEND— the length of data to send is greater than the maximum data length the printer application layer can accept.

System action: PSF processing ends abnormally.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0E9B

Explanation: This abend is issued by module APSHNRM— a logic error occurred because the select operation timed out when the timer was set to wait indefinitely.

System action: AFP Download Plus processing ends abnormally.

System programmer response: This AFP Download Plus abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0EA0

Explanation: The abend is issued by module APSKDVP— following a socket INITAPI call failure, the end call to JES failed.

System action: Download for z/OS processing ends abnormally.

System programmer response: Download for z/OS detected this abend. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature. If this error persists, consult your service representative in the IBM Support Center, or use your electronic link with IBM service for assistance related to this error code.

0EA1

Explanation: This abend is issued by module APSKROUT— Download for z/OS is unable to open the routing-control data set.

System action: Download for z/OS processing ends abnormally.

System programmer response: In the Download for z/OS startup procedure, ensure that the DD name for the routing-control data set is ROUTFILE. Download for z/OS detected this abend. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

0EA2

Explanation: This abend is issued by module APSKROUT— the RECFM of the routing-control data set is not FB.

System action: Download for z/OS processing ends abnormally.

System programmer response: Reallocate the routing-control data set with fixed blocked record format. Download for z/OS detected this abend. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

0EA3

Explanation: This abend is issued by module APSKROUT— the LRECL of the routing-control data set is not 80.

System action: Download for z/OS processing ends abnormally.

System programmer response: Reallocate the routing-control data set with a record length of 80 bytes.

Download for z/OS detected this abend. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

0EA4

Explanation: This abend is issued by module APSKROUT— Download for z/OS cannot get storage for the data control block (DCB) for the Download for z/OS routing-control data set.

System action: Download for z/OS processing ends abnormally.

System programmer response: This code indicates that the region size should be increased. Increase the REGION parameter specified in the Download for z/OS startup procedure. Download for z/OS detected this abend. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

0EA5

Explanation: This abend is issued by module APSKLNK— Download for z/OS cannot get storage to store the routing statements from the routing-control data set.

System action: Download for z/OS processing ends abnormally.

System programmer response: This code indicates that the region size should be increased. Increase the REGION parameter specified in the Download for z/OS startup procedure.Download for z/OS detected this abend. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

0EA7

Explanation: This abend is issued by module APSKAFPD— the socket INITAPI call failed.

System action: Download for z/OS processing ends abnormally.

System programmer response: Take the action recommended for the error indicated in message APS995I. Download for z/OS detected this abend. Refer to *PSF for z/OS: Download for z/OS* for more information about this feature.

0EA8

Explanation: This abend is issued by module APSKDVP— an error was reported by APSIPUT in freeing the message data set buffers.

System action: Download for z/OS processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center

or use your electronic link with IBM service for assistance regarding this error code.

0EA9

Explanation: This abend is issued by module APSKDVP— an error was reported by APSIDEQ in de-queuing and freeing the message data set record resource block (RRB).

System action: Download for z/OS processing ends abnormally.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F00

Explanation: This abend is issued by modules DCKCHCBE, DCKCPADE, DCKCRABE— PPCC cannot continue, because it cannot acquire temporary storage.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0F01

Explanation: This abend is issued by module DCKCRABE— a password is specified in the APPL entry, but the Access Control Block (ACB) does not contain a password. Because the password parameter is not supported by PPCC, it must not appear in the VTAM network definition statements.

System action: PSF processing ends abnormally.

System programmer response: Correct the APPL statement in the VTAM network definition for PSF.

0F02

Explanation: This abend is issued by module DCKCRABE— either this is an ACF/VTAM logic error, or incorrect information was supplied in the Access Control Block (ACB). The latter case has three possible explanations:

- The APPLID field or the PASSWD field is incorrect, or
- The address of the APPLID field or the PASSWD field is out of range for the application program, or
- The network definition of AUTH for the APPLID is incorrect.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: Correct the APL statement in the VTAM network definition for PSF.

0F03

Explanation: This abend is issued by module DCKCRABE— an attempt was made to initialize PPCC at the time the given host APPLID was in the process of being "closed" by VTAM. This could happen either if the host program is restarted too quickly, or if the operator varies the host APPLID inactive.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code. The failing component is VTAM.

0F04

Explanation: This abend is issued by module DCKCRABE— the Systems Network Architecture network inactivity timer of the remote logical unit (LU) has expired. This can be caused either by an inappropriate setting of the Systems Network Architecture network inactivity timer at the remote LU (set to a value smaller than the PSF disconnect interval), or by a PSF problem that caused Systems Network Architecture network activity to cease.

System action: PSF processing ends abnormally.

System programmer response: Reconfigure the printer to have a longer SNA network inactivity timer.

0F05

Explanation: This abend is issued by module DCKCRABE— ACF/VTAM has detected an internal logic error in ACF/VTAM.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code. The failing component is VTAM.

0F06

Explanation: This abend is issued by module DCKCRABE— ACF/VTAM has aborted a request, because an error was detected either during the processing of the request, or in the associated session, task, or address space (such as an abend).

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F07

Explanation: This abend is issued by module DCKCRINE— PPCC abended and was unable to store the correct reason code because it did not have addressability to its internal control blocks. This default reason code, which is stored in this area at initialization time, indicates a logic error. If register 15 contains the 0Fxx reason code desired for this abend, see that particular code for more details.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F09

Explanation: This abend is issued by module DCKCRABE— as the result of an internal logic error, PPCC Resource Management has incorrectly specified one of its requests to VTAM.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F0A

Explanation: This abend is issued by module DCKCRABE— some of the received data (request or response units) for this session has been discarded by VTAM because of a lack of buffer space.

System action: PSF tries to recover from this abend

by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates that the REGION size should be increased. If the print request is processing in direct-printing mode, this REGION size is for the job or step containing the request. If the print request is processing in deferred-printing mode, increase the REGION parameter used in the PSF startup procedure.

0F0B

Explanation: This abend is issued by module DCKCRABE— ACF/VTAM cannot continue because it cannot acquire temporary storage.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code might indicate that the REGION size should be increased. Increase the REGION parameter used in the startup procedure for PSF. This abend reason code might also indicate that the VTAM buffer pools, especially CRPL or LPBUF, are too small. Change the VTAM definition to increase these. If an SNA sense code is present, it might indicate the cause of the VTAM storage shortage. For example, X'08120005' might indicate that the number of independent LUs allowed at the NCP has been exceeded. In that case, the NUMILU parameter in the NCP gen must be increased.

0F0C

Explanation: This abend is issued by module DCKCPLEE— PPCC Presentation Services was given an incorrect or incomplete logical record to send.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F0D

Explanation: This abend is issued by modules DCKCPLEE and DCKCRABE— PPCC Resource Management or PPCC Presentation Services has detected a protocol violation for a host transaction program. Either an incorrect parameter has been submitted, or one of the APPC verbs has been issued in the wrong sequence.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a possible logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F0E

Explanation: This abend is issued by module DCKCRABE— PPCC Resource Management has detected an internal logic error. One of its Finite State Machines has encountered a state check.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F0F

Explanation: This abend is issued by modules DCKCHBBF, DCKCHCRF, DCKCHCSF, DCKCHHDF, DCKCHMAE, DCKCHMBE, DCKCHQRF, DCKCHRTF, DCKCHSSF— PPCC Half-Session Management has detected an internal logic error. One of its Finite State Machines has encountered a state check.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F10

Explanation: This abend is issued by module DCKCPLEE— PPCC Presentation Services has detected an internal logic error. One of its Finite State Machines has encountered a state check.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: This PSF abend reason code indicates a logic error. Contact your service representative in the IBM Support Center or use your electronic link with IBM service for assistance regarding this error code.

0F11

Explanation: This abend is issued by modules
DCKCHBBF, DCKCHCAE, DCKCHCBE, DCKCHCCE,
DCKCHCRF, DCKCHCSF, DCKCHHDF, DCKCHMAE,
DCKCHMBE, DCKCHQRF, DCKCHRTF, DCKCHSLE,
DCKCHSSF, DCKCPLEE, DCKCRABE— PPCC has
detected an internal logic error. An internal incoming
parameter contains an error.

System action: PSF tries to recover from this abend
by restarting. Message APS057I is issued if PSF
successfully restarts.

System programmer response: This PSF abend
reason code indicates a logic error. Contact your service
representative in the IBM Support Center or use your
electronic link with IBM service for assistance regarding
this error code.

0F12

Explanation: This abend is issued by modules
DCKCHBBF, DCKCHCRF, DCKCHCSF, DCKCHHDF,
DCKCHMAE, DCKCHMBE, DCKCHQRF, DCKCHRKE,
DCKCHRTF, DCKCHRXE, DCKCHRYE, DCKCHRZE,
DCKCPPEE, DCKCRABE— PPCC has detected a
protocol violation by the remote LU. An UNBIND (FE)
has been sent unless an incorrect type of UNBIND was
received from the remote LU. If the UNBIND is sent,
four bytes of sense data following the UNBIND type
code indicate the specific violation. For a description of
the sense data, refer to *Systems Network Architecture
Formats*,GA27-3136 .

System action: PSF tries to recover from this abend
by restarting. Message APS057I is issued if PSF
successfully restarts.

System programmer response: To determine the
cause, refer to *Systems Network Architecture Formats*
for the SNA sense code. The problem might be in the
VTAM network definition or in the printer or controller
configuration. Otherwise, this PSF reason code might
indicate a logic error in PSF, the printer, or the
controller. A VTAM buffer trace is needed to determine
the failing component.

0F14

Explanation: This abend is issued by module
DCKCPLEE— the remote LU has indicated that the
host LU has sent incorrect data. An FMH7 record has
been received. For a description of the sense data, refer
to *Systems Network Architecture Formats*, GA27-3136.

System action: PSF tries to recover from this abend
by restarting. Message APS057I is issued if PSF
successfully restarts.

System programmer response: To determine the
cause, refer to *Systems Network Architecture Formats*
for the SNA sense code. The problem might be with the
VTAM network definition or with the configuration of the

printer or the controller. Otherwise, this PSF reason
code might indicate a logic error in PSF, the printer, or
the controller. A VTAM buffer trace is needed to
determine the failing component.

0F15

Explanation: This abend is issued by modules
DCKCHBBF, DCKCHCAE, DCKCHCBE, DCKCHCRF,
DCKCHCSF, DCKCHHDF, DCKCHRBE, DCKCHRKE,
DCKCHRXE, DCKCHRYE, DCKCHRZE, DCKCHSIE,
DCKCHSJE, DCKCPLEE, DCKCRABE— PPCC has
detected an unexpected condition, which indicates an
internal logic error.

System action: PSF tries to recover from this abend
by restarting. Message APS057I is issued if PSF
successfully restarts.

System programmer response: This PSF abend
reason code indicates a logic error. Contact your service
representative in the IBM Support Center or use your
electronic link with IBM service for assistance regarding
this error code.

0F16

Explanation: This abend is issued by module
DCKCRABE— the remote LU has indicated that the
host LU has sent incorrect data. An UNBIND (FE) has
been received. Four bytes of sense data following the
UNBIND type code indicate the specific violation. For a
description of the sense data, refer to *Systems Network
Architecture Formats*, GA27-3136.

System action: PSF tries to recover from this abend
by restarting. Message APS057I is issued if PSF
successfully restarts.

System programmer response: To determine the
cause, refer to *Systems Network Architecture Formats*
for the SNA sense code. The problem might be a VTAM
network definition problem or a problem with the
configuration of the printer or the controller. Otherwise,
this PSF reason code might indicate a logic error in
PSF, the printer, or the controller. A VTAM buffer trace is
needed to determine the failing component.

0F17

Explanation: This abend is issued by modules
DCKCHRXE, DCKCHRYE— the remote LU has
indicated that the host LU has sent incorrect data. The
situation might be any of these:

- An exception request has been received.
- A negative response has been received with an
  unexpected sense code.
- An RU (request/response unit) from the remote LU
  was larger than the maximum RU size.

For a description of any sense data sent or received, refer to *Systems Network Architecture Formats*, GA27-3136.

System action: PSF tries to recover from this abend by restarting. Message APS057I is issued if PSF successfully restarts.

System programmer response: To determine the cause, refer to *Systems Network Architecture Formats* for the SNA sense code. The problem might be with the VTAM network definition or with the configuration of the printer or the controller. Otherwise, this PSF reason code might indicate a logic error in PSF, the printer, or the controller. A VTAM buffer trace is needed to determine the failing component.

0F18

Explanation: This abend is issued by module DCKCRABE— VTAM did not complete the operations requested, either because the operator has entered a Halt Net or a Cancel, or because VTAM itself is abending. In either case, VTAM is ending, and PSF cannot continue without VTAM.

System action: PSF processing ends abnormally.

System programmer response: After VTAM has been restarted, bring up PSF again.

Appendix A. Problem Determination

Table 2 lists the instructions associated with the problem determination responses listed in the PSF messages. After completing the problem determination instructions associated with an error message, save the collected information for your IBM representative.

Table 2. Problem Determination Instructions

Item	System programmer's response
1	Save the console sheet from the primary console. For systems with remote consoles, save the remote console sheet. In systems with multiple console support (MCS), save a copy of the hard copy log.
2	Save the job stream associated with the job.
3	Save the system output (SYSOUT) associated with the job.
4	Ensure that the job step includes one of these: 　　SYSABEND DD statement 　　SYSDUMP DD statement 　　PL1DUMP DD statement 　　SYSMDUMP DD statement
5	If SMP/E is used to make all the changes to the system, run the LIST SYSMODS FORFMID(HPRF320) command of SMP/E to obtain a list of the current maintenance for PSF from the SMP consolidated software inventory, SMPCSI.
6	Run the AMBLIST service aid program to obtain: 　　An object module listing specifying the LISTOBJ function 　　A load module map and cross reference listing, specifying the OUTPUT = BOTH option of the LISTLOAD function
7	Run the MVS DUMP command to dump the contents of the PSF address space to a dump data set. If needed, use IPCS to view the dump.
8	Save all the associated output.
9	Save the dump.
10	Have the system generation (SYSGEN) output available from: 　　Stage I 　　Stage II
11	Run the EREP service aid to dump the SYS1.LOGREC data set, and save the resulting output. For MSS, run the following program to dump the SYS1.LOGREC data set: 　　Service aid IFCISDAO 　　Program ISDASDAO with the DETAIL(ALL) parameter
12	Save the control card associated with the job.
13	Save the source input associated with the job.
14	Run the system utility program to obtain a list of these: 　　Volume table of contents of the associated volume, specifying the FORMAT option 　　Volume table of contents of the associated volume, specifying the DUMP option 　　Directory of the associated data set
15	Run the IEBPTPCH data set utility to print these: 　　Directory of the applicable data set 　　Applicable data set 　　Applicable member 　　Applicable procedure
16	Have the linkage editor/loader map available.
17	To report a possible software error, consult your IBM Support Center.

Table 2. Problem Determination Instructions (continued)

Item	System programmer's response
18	To report a possible hardware or microcode error, consult your printer service representative.
19	Take a PSF full trace output data set.
20	Print the associated SVC dump data set by using the ABSDUMP service aid with the GO statement.
21	Run the AMASPZAP service aid program, using the ABSDUMP statement, to print the contents of the applicable: 　　Data set 　　Track
22	Use the IEBCOPY to unload the SYS1.IMAGELIB to tape.
23	Consult your IBM system engineer.
24	Have the JES initialization output available.
25	Take a PSF SYNC trace output data set.
26	Save PSF system task output.
27	Take a PSF dump on this message, and ensure that an internal PSF trace is in the dump (TRACE=YES) (DUMP=,APSXXXXI).
28	Save the security definitions library member.
29	Take a PSF notify subtask (NST) trace output data set.
30	If running under JES3, take a PSF dump to obtain additional information contained in the JES3 FSS/FSA trace tables.
31	On z/OS, verify the enable/disable state of PSF with the command D PROD,STATE, and save the system log.
32	Refer to *PSF for z/OS: AFP Download Plus* to determine the download receiver support needed.

Appendix B. Valid Scope Values for the CMR Descriptor Triplet

Table 3 lists the scope values that are valid on the Color Management Resource (CMR) Descriptor triplet, X'91', for different structured fields:

Table 3. Valid Scope Values for the CMR Descriptor Triplet

Structured Fields	Scopes				
	Print File	**Document**	**Page/ Sheet Group**	**Page/ Overlay**	**Data Object**
Map Data Resource (MDR)					
Document Environment Group (DEG) in form definition	X	X			
Medium map in form definition			X		
Resource Environment Group (REG) in data set or page definition	X	X	X	X	X
Active Environment Group (AEG) in page or overlay				X	X
Object Environment Group (OEG) in embedded object or soft page segment					X
Preprocess Presentation Object (PPO)					
For overlay				X	
For IOCA object or object container					X
Include Object (IOB) in page/overlay or page definition					X
Line descriptor (LND), Record Descriptor (RCD), or XML Descriptor (XMD) in page definition					X

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Appendix C. Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, use software products successfully. The major accessibility features in z/OS let users:

- Use assistive technologies such as screen readers and screen magnifier software.
- Operate specific or equivalent features using only the keyboard.
- Customize display attributes such as color, contrast, and font size.

Using Assistive Technologies

Assistive technology products, such as screen readers, function with the user interfaces found in z/OS. Consult the assistive technology documentation for specific information when using it to access z/OS interfaces.

Keyboard Navigation of the User Interface

Users can access z/OS user interfaces using TSO/E or ISPF. For more information, refer to *z/OS TSO/E Primer*, SA22–7787, *z/OS TSO/E User's Guide*, SA22–7794, and *z/OS ISPF User's Guide Vol I*, SC34–4822. These guides describe how to use TSO/E and ISPF, including the use of keyboard shortcuts or function keys (PF keys). Each guide includes the default settings for the PF keys and explains how to modify their functions.

z/OS Documentation

Most z/OS documentation is accessible using screen readers with the BookServer/Library Server versions of z/OS documents in the Internet library at:

`http://www.ibm.com/systems/z/os/zos/bkserv/`

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The titles and order numbers might change from time to time. To verify the current title or order number, consult your IBM marketing representative.

You can obtain many of the publications listed in this bibliography from the z/OS printing software Web page:

`http://www.ibm.com/systems/z/zos/printsoftware/supportmanuals_ww.html`

Print Services Facility (PSF) for z/OS

Publication	Order Number
AFP Conversion and Indexing Facility User's Guide	S550-0436
PSF for z/OS: AFP Download Plus	S550-0433
PSF for z/OS: Customization	S550-0427
PSF for z/OS: Diagnosis	G550-0428
PSF for z/OS: Download for z/OS	S550-0429
PSF for z/OS: Introduction	G550-0430
PSF for z/OS: Licensed Program Specifications	G550-0431
PSF for z/OS: Messages and Codes	G550-0432
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PSF for z/OS: User's Guide	S550-0435
PSF for AIX: AFP Upload Configuration Guide Using SNA	S544-5422
PSF for AIX: AFP Upload Configuration Guide Using TCP/IP	S544-5423
PSF for z/OS Collection Kit CD-ROM (BookManager)	SK3T-9927
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Infoprint Server

Title	Order Number
z/OS Infoprint Server Customization	S544-5744
z/OS Infoprint Server Introduction	S544-5742
z/OS Infoprint Server Messages and Diagnosis	G544-5747
z/OS Infoprint Server Operation and Administration	S544-5745
z/OS Infoprint Server Printer Inventory for PSF	S510-7703
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Advanced Function Presentation (AFP)

Publication	Order Number
Advanced Function Printing: Host Font Data Stream Reference	S544-3289

Publication	Order Number
AFP Conversion and Indexing Facility User's Guide	S550-0436
AFP Toolbox User's Guide	G544-5292
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Guide to Advanced Function Presentation	G544-3876
Printer Information	S544-5750
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Advanced Function Presentation: Programming Guide and Line Data Reference	S544-3884
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Bar Code Object Content Architecture Reference	S544-3766
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Graphics Object Content Architecture for Advanced Function Presentation Reference	S544-5498
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Presentation Text Object Content Architecture Reference	SC31-6803
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IBM AFP Fonts: Type Transformer User's Guide	G544-3796
IBM Infoprint Fonts: Font Summary	G544-5846
IBM Infoprint Fonts: Introduction to Type Transformer and Utilities for Windows	G544-5853

Data Transforms

Publication	Order number
Infoprint Transforms from AFP for z/OS	G550-0444
Infoprint Transforms to AFP for z/OS	G550-0443
Infoprint XML Extender for z/OS	S544-5855
Infoprint XT Extender for z/OS: Customization and Usage	S544-5879
Infoprint XT Extender for z/OS: Messages and Diagnosis	G544-5878

Text Processing

Publication	Order number
DCF/DLF General Information	GH20-9158
Document Composition Facility: Bar Code User's Guide	S544-3115
Document Composition Facility: SCRIPT/VS Text Programmer's Guide	SH35-0069
Document Composition Facility SCRIPT/VS Language Reference	SH35-0070
Publishing Systems BookMaster General Information	GC34-5006
Publishing Systems BookMaster User's Guide	SC34-5009

Print Management

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InfoPrint Manager for AIX: Introduction and Planning Guide	G550-1060
InfoPrint Manager for AIX: Procedures	G550-1066
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