

z/OS



# MVS System Messages

## Volume 3 (ASB - BPX)



z/OS



# MVS System Messages

## Volume 3 (ASB - BPX)

**Note**

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 323.

### **Thirteenth Edition, April 2007**

This is a major revision of SA22-7633-11.

This edition applies to Version 1 Release 8 of z/OS (5694-A01), to Version 1 Release 8 of z/OS.e™ (5655-G52), and to all subsequent releases and modifications until otherwise indicated in new editions.

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## About this document

This document supports z/OS™ (5694-A01) and z/OS.e (5655-G52).

The MVS™ System Messages documents primarily describe messages that are issued to the system operator at the system console and system messages that are logged. These include:

- Operator messages issued by the BCP and DFSMS/MVS®.
- Log messages issued by the BCP and DFSMS/MVS.
- Some SYSOUT messages issued by the BCP and DFSMS/MVS. SYSOUT messages are issued by utilities that normally run in batch, such as SPZAP.
- Batch job messages issued by the BCP. Messages issued by JES2 or JES3 for batch jobs are in the JES messages documents.

For the most part, messages issued at interactive terminals (like TSO/E and CICS® terminals) are documented by the specific elements and products that support those terminals.

The titles of the MVS System Messages documents indicate the range of message prefixes in the documents:

- *z/OS MVS System Messages, Vol 1 (ABA-AOM)*, SA22-7631
- *z/OS MVS System Messages, Vol 2 (ARC-ASA)*, SA22-7632
- *z/OS MVS System Messages, Vol 3 (ASB-BPX)*, SA22-7633
- *z/OS MVS System Messages, Vol 4 (CBD-DMO)*, SA22-7634
- *z/OS MVS System Messages, Vol 5 (EDG-GFS)*, SA22-7635
- *z/OS MVS System Messages, Vol 6 (GOS-IEA)*, SA22-7636
- *z/OS MVS System Messages, Vol 7 (IEB-IEE)*, SA22-7637
- *z/OS MVS System Messages, Vol 8 (IEF-IGD)*, SA22-7638
- *z/OS MVS System Messages, Vol 9 (IGF-IWM)*, SA22-7639
- *z/OS MVS System Messages, Vol 10 (IXC-IZP)*, SA22-7640

If you do not know which document describes a particular message, try using LookAt (see “Using LookAt to look up message explanations” on page vi). Here are some of the documents on that bookshelf:

- The MVS System Messages documents
- *z/OS MVS Dump Output Messages*, SA22-7590
- *z/OS MVS System Codes*, SA22-7626
- *z/OS and z/VM HCD Messages*, SC33-7986
- *z/OS JES2 Messages*, SA22-7537
- *z/OS JES3 Messages*, SA22-7552
- *z/OS TSO/E Messages*, SA22-7786
- *z/OS UNIX System Services Messages and Codes*, SA22-7807

For a list of message documents sorted by message prefix, see “Message directory” on page x.

This document also contains the routing and descriptor codes that IBM assigns to the messages that z/OS components, subsystems, and products issue. Routing and descriptor codes are specified by the ROUTCDE and DESC keyword parameters on WTO and WTOR macros, which are the primary methods that programs use to issue messages. The routing code identifies where a message will be displayed. The descriptor code identifies the significance of the message and the color of the message on operator consoles with color (see “Message Color” on page 16).

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## Who should use these MVS System Messages documents

The system messages documents are for all people who receive messages from the system. Usually, these people are system operators, system programmers, and application programmers who do any of the following tasks:

- Initialize the operating system and its subsystems
  - Monitor system activity
  - Keep the system running correctly
  - Diagnose and correct system problems
  - Diagnose and correct errors in problem programs
- 

## How to use these documents

The system messages documents contain descriptions of messages, along with the following:

- “Message library” on page ix tells how to create a customized message library
- “Message directory” on page x lists all message prefixes and the documents containing the message descriptions
- Chapter 1, “Introduction,” on page 1 describes how the system issues messages, where it places them, and their formats
- “Routing Codes” on page 11 and “Descriptor Codes” on page 15 contain an introduction to routing and descriptor codes. These sections describe:
  - The meaning of each code
  - How these codes are specified
  - How the system uses these codes

For information on using routing and descriptor codes to route messages, see *z/OS MVS Planning: Operations*.

**Message Explanations:** Message chapters are arranged alphabetically by the message prefixes. In each chapter, the messages are arranged numerically by the numbers following the prefix. For a general description of message explanations, see “How Messages are Explained in this Book” on page 5.

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## Using LookAt to look up message explanations

LookAt is an online facility that lets you look up explanations for most of the IBM® messages you encounter, as well as for 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.

You can use LookAt from these locations to find IBM message explanations for z/OS elements and features, z/VM®, VSE/ESA™, and Clusters for AIX® and Linux™:

- The Internet. You can access IBM message explanations directly from the LookAt Web site at [www.ibm.com/servers/eserver/zseries/zos/bkserv/lookat/](http://www.ibm.com/servers/eserver/zseries/zos/bkserv/lookat/).
- Your z/OS TSO/E host system. You can install code on your z/OS or z/OS.e systems to access IBM message explanations using LookAt from a TSO/E command line (for example: TSO/E prompt, ISPF, or z/OS UNIX® System Services).
- Your Microsoft® Windows® workstation. You can install LookAt directly from the *z/OS Collection* (SK3T-4269) or the *z/OS and Software Products DVD Collection* (SK3T-4271) and use it from the resulting Windows graphical user interface (GUI). The command prompt (also known as the DOS > command line) version can still be used from the directory in which you install the Windows version of LookAt.
- Your wireless handheld device. You can use the LookAt Mobile Edition from [www.ibm.com/servers/eserver/zseries/zos/bkserv/lookat/lookatm.html](http://www.ibm.com/servers/eserver/zseries/zos/bkserv/lookat/lookatm.html) with a handheld device that has wireless access and an Internet browser (for example: Internet Explorer for Pocket PCs, Blazer or Eudora for Palm OS, or Opera for Linux handheld devices).

You can obtain code to install LookAt on your host system or Microsoft Windows workstation from:

- A CD-ROM in the *z/OS Collection* (SK3T-4269).
- The *z/OS and Software Products DVD Collection* (SK3T-4271).
- The LookAt Web site (click **Download** and then select the platform, release, collection, and location that suit your needs). More information is available in the LOOKAT.ME files available during the download process.

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## Using IBM Health Checker for z/OS

IBM Health Checker for z/OS is a z/OS component that installations can use to gather information about their system environment and system parameters to help identify potential configuration problems before they impact availability or cause outages. Individual products, z/OS components, or ISV software can provide checks that take advantage of the IBM Health Checker for z/OS framework. This book refers to checks or messages associated with this component.

For additional information about checks and about IBM Health Checker for z/OS, see *IBM Health Checker for z/OS: User's Guide*. Starting with z/OS V1R4, z/OS users can obtain the IBM Health Checker for z/OS from the z/OS Downloads page at [www.ibm.com/servers/eserver/zseries/zos/downloads/](http://www.ibm.com/servers/eserver/zseries/zos/downloads/).

SDSF also provides functions to simplify the management of checks. See *z/OS SDSF Operation and Customization* for additional information.

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## Where to find the most current message information

The MVS System Messages documents are cumulative. As messages are added to the system they are added to the documents. Similarly, when messages are changed on the system, they are changed in the documents. However, when a message is deleted from the system (no longer issued), the message is *not* deleted from the document. This means that users can look in the most recent message documents for the most current descriptions of system messages.

To find the most current edition of a document, you can look on the Web. Point your browser to the z/OS home page and click on Library:

[www.ibm.com/servers/eserver/zseries/zos/](http://www.ibm.com/servers/eserver/zseries/zos/)

When you are in the z/OS library area, use the messages and codes database to search for the message ID you are interested in.

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## Where to find more information

Many message descriptions refer to:

- **Data areas and control blocks:** See *z/OS MVS Data Areas, Vol 1 (ABEP-DALT)*, *z/OS MVS Data Areas, Vol 2 (DCCB-ITZYRETC)*, *z/OS MVS Data Areas, Vol 3 (IVT-RCWK)*, *z/OS MVS Data Areas, Vol 4 (RD-SRRA)*, and *z/OS MVS Data Areas, Vol 5 (SSAG-XTLST)*.
- **Dumps:** For examples of ABEND, stand-alone, and SVC dumps and how to read them, see *z/OS MVS Diagnosis: Tools and Service Aids*. For examples of component output from dumps and how to read and request it, see *z/OS MVS Diagnosis: Reference*.
- **Identification of a component, subsystem, or product:** See the *z/OS MVS Diagnosis: Reference* to identify the component, subsystem, or product from the name of an IBM module or for a macro. The module prefix and macro tables give the program identifier to be used in a PIDS symptom in a search argument.
- **System completion and wait state codes:** See *z/OS MVS System Codes*.
- **Logrec data set error records:** For the formatted records, see *z/OS MVS Diagnosis: Reference*.

- **Trace output:** For the formats and the meaning of the information in the generalized trace facility (GTF) trace, instruction address trace, master trace, system trace, and component trace, see *z/OS MVS Diagnosis: Tools and Service Aids*.

The following tables list documents that contain information related to the information contained in the MVS System Messages documents. For the titles and order numbers of documents not in the tables, see *z/OS Information Roadmap*.

Use the appropriate *Principles of Operation* document for the hardware you have installed.

When the MVS System Messages documents reference information in other documents, the shortened version of the document title is used. The following tables show the complete titles and order numbers of the documents that you might need while you are using the MVS System Messages documents.

## Information updates on the web

For the latest information updates that have been provided in PTF cover letters and Documentation APARs for z/OS and z/OS.e, see the online document at:

[publibz.boulder.ibm.com/cgi-bin/bookmgr\\_OS390/BOOKS/ZIDOCMST/CCONTENTS](http://publibz.boulder.ibm.com/cgi-bin/bookmgr_OS390/BOOKS/ZIDOCMST/CCONTENTS).

This document is updated weekly and lists documentation changes before they are incorporated into z/OS publications.

## Subsystem, product, and hardware documents

Title	Order Number
<i>ACF/TCAM Base Installation Guide</i>	SC30-3132
<i>Asynchronous Adapter Device Driver Table</i>	N/A
<i>C/370™ Programming Guide</i>	N/A
<i>CICS Family: General Information</i>	N/A
<i>CICS Recovery and Restart Guide</i>	SC34-6246
<i>Common I/O-Device Commands</i>	SA22-7204
<i>CPI Communications Reference</i>	SC26-4399
<i>DATABASE 2 Application Programming Guide</i>	SC26-4293
<i>DB2® Application Programming Guide for TSO and Batch Users</i>	SC26-4081
<i>DATABASE 2 General Information Manual</i>	GC26-4073
<i>IBM DATABASE 2 Messages</i>	SC23-0592
<i>IBM DATABASE 2 Version 2 Messages and Codes</i>	SC26-4113
<i>IBM DATABASE 2 Version 2 Release 3 Messages and Codes</i>	SC26-4379
<i>IBM Graphics Access Method/SP Messages and Codes</i>	SC33-0143
<i>ES/9000®: Operating Your System</i>	SA24-4350
<i>FileNet OSAR Library Unit Product Description</i>	PN9000102
<i>IBM 3290 Information Panel Description and Reference</i>	SR23-6155
<i>IBM 3990/9390 Operations and Recovery Guide</i>	GA32-0253
<i>IBM 3990/9390 Storage Control Planning, Installation, and Storage Administration Guide</i>	GA32-0100
<i>IBM 3990 Storage Control Reference for Model 6</i>	GA32-0099
<i>IBM 9340 Direct Access Storage Subsystems Reference</i>	GC26-4647
<i>LASERDRIVE** 1200 Engineering Specification</i>	N/A

Title	Order Number
LASERDRIVE** 1200 Intelligent Digital Optical Disk Drive with SCSI Engineering Specification	N/A
Maintaining IBM Storage Subsystem Media	GC26-4495
Maintenance Information for the 9037 Sysplex Timer®	SY27-2605
Maintaining IBM Storage Subsystem Media	GC26-4495
OS/2® Programming Tools and Info V-1.3 Manage Macro Assembler/2™	Z91F-9269
OS/2 WARP® Control Program Programming Reference	N/A
Portable Netware System Messages	SC23-2424
Print Services Access Facility/MVS User's Guide and Reference	S544-3100
z/Architecture™ Principles of Operation	SA22-7832
Remote Copy Administrator's Guide and Reference	SC35-0169
SCSI Adapter Completion Code Table	N/A
RT SCSI Adapter Device Driver Table	N/A
Sysplex Timer 9037 Maintenance	SY27-2605
VM/ESA® CP Command and Utility Reference	SC24-5519
VM/ESA General User Command Reference	SC24-5433

## Message library

The message library is designed so that operators and programmers in an installation can build their own libraries of the message and code information that fits their specific needs. Each person can place into binders the chapters and documents containing only the messages and codes he or she could receive.

### Basic documents

Each installation requires at least one copy of each of the MVS System Messages documents and of z/OS MVS Dump Output Messages. Regardless of your specific system's options, you will receive at the console or in listings some subset of the messages in these documents.

Each installation also requires at least one copy of z/OS MVS System Codes, which contains the 3-digit hexadecimal system completion codes (abend codes) and the wait state codes produced by all the components of the system.

**Note:** 4-digit decimal user completion codes appear in documents for the component, subsystem, or product that produces the codes. Codes produced by installation-provided programs do not appear in IBM documents.

All programming and operations personnel need access to the basic documents, although application programmers might not need to have their own copies.

### Optional documents

For information about message changes for multiple z/OS elements including JES2, JES3, RACF®, TCP/IP, and others, see z/OS Summary of Message and Interface Changes.

### CD-ROM collection

A comprehensive source of messages for IBM products is contained in the *IBM Online Library Productivity Edition: Messages and Codes Collection, SK2T-2068*.

## Message directory

To use a message prefix to locate the document containing a specific message, see the following table.

<b>Prefix</b>	<b>Component</b>	<b>Document title - order number</b>
ABA	DFSMShsm™	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631
ACP	LANRES	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631
ADF	Time Sharing Option Extensions (TSO/E) session manager	<i>z/OS TSO/E User's Guide</i> , SA22-7794 <i>z/OS TSO/E Command Reference</i> , SC28-1881 <i>z/OS TSO/E Messages</i> , SA22-7786
ADM	Graphical data display manager	<i>GDDM® Messages</i> , SC33-0869
ADR	DFDSS	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631
ADRY	DFDSS	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631
ADY	Dump analysis and elimination (DAE)	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631
AEM	Graphical data display manager	<i>GDDM Messages</i> , SC33-0869
AFB	VSFORTRAN	<i>VSFORTRAN Version 2 Language and Library Reference</i> , SC26-4221
AHL	Generalized trace facility (GTF)	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631 <i>z/OS MVS Dump Output Messages</i> , GC28-1749
AMA	SPZAP service aid	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631
AMB	LIST service aid	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631
AMD	Stand-alone dump	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631
AMS	Availability manager	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631 <i>z/OS RMF Messages and Codes</i> , SC33-7993
ANT	Remote Copy	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631
ANF	Starting with Release 8: Infoprint® Server	<i>z/OS Infoprint Server Messages and Diagnosis</i> , G544-5747
AOF	System Automation for OS/390®	<i>IBM Tivoli System Automation for z/OS Messages and Codes</i> , SC33-8264
AOM	Administrative operations manager	<i>z/OS MVS System Messages, Vol 1 (ABA-AOM)</i> , SA22-7631
AOP	Infoprint server	<i>z/OS Infoprint Server Messages and Diagnosis</i> , G544-5747
API	Starting with Release 8: Infoprint Server	<i>z/OS Infoprint Server Messages and Diagnosis</i> , G544-5747
APS	Print services facility (PSF)	<i>Print Services Facility™ Messages</i> , S544-3675
ARC	DFSMShsm	<i>z/OS MVS System Messages, Vol 2 (ARC-ASA)</i> , SA22-7632
ARRP	System Control Program (SCP)	See message 52099 in <i>Enterprise System/9000® Models 190, 210, 260, 320, 440, 480, 490, 570, and 610 Messages Part 2</i> for a complete message explanation and appropriate responses; see GA23-0378
ASA	MVS Reuse	<i>z/OS MVS System Messages, Vol 2 (ARC-ASA)</i> , SA22-7632
ASB	Advanced Program-to-Program Communications/MVS (APPC/MVS)	<i>z/OS MVS System Messages, Vol 3 (ASB-BPX)</i> , SA22-7633 <i>z/OS MVS Dump Output Messages</i> , SA22-7590

<b>Prefix</b>	<b>Component</b>	<b>Document title - order number</b>
ASD	LANRES	<i>z/OS MVS System Messages, Vol 3 (ASB-BPX)</i> , SA22-7633
ASM	Auxiliary storage manager (ASM)	<i>z/OS MVS Dump Output Messages</i> , SA22-7590
ASMA	High Level Assembler for MVS & VM & VSE	<i>HLASM Programmer's Guide</i> , SC26-4941
ASR	Symptom record (SYMREC)	<i>z/OS MVS Dump Output Messages</i> , SA22-7590
ATB	Advanced Program-to-Program Communications/MVS (APP/C/MVS)	<i>z/OS MVS System Messages, Vol 3 (ASB-BPX)</i> , SA22-7633 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
ATR	Resource recovery services (RRS)	<i>z/OS MVS System Messages, Vol 3 (ASB-BPX)</i> , SA22-7633 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
I   ATRH	Resource recovery services (RRS)	<i>z/OS MVS System Messages, Vol 3 (ASB-BPX)</i> , SA22-7633
AVM	Availability manager	<i>z/OS MVS System Messages, Vol 3 (ASB-BPX)</i> , SA22-7633
BFS	IBM LAN server for MVS	<i>OS/390 MVS System Messages, Vol. 2</i> , GC28-1785
BLG	Information System, Information Management	<i>The Information/Management Library Messages and Codes</i> , SC34-4459
BLM	Information System, Information Management	<i>The Information/Management Library Messages and Codes</i> , SC34-4459
BLS	Interactive problem control system (IPCS)	<i>z/OS MVS System Messages, Vol 3 (ASB-BPX)</i> , SA22-7633 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
BLX	Information System, Information Management	<i>The Information/Management Library Messages and Codes</i> , SC34-4459
BLW	Loadwait/Restart	<i>z/OS MVS System Messages, Vol 3 (ASB-BPX)</i> , SA22-7633
BNH	Network Problem Determination Application (NPDA)	<i>NPDA Messages</i> , SC34-2115
BPX	z/OS UNIX System Services	<i>z/OS MVS System Messages, Vol 3 (ASB-BPX)</i> , SA22-7633 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
CBDA	Hardware configuration definition (HCD)	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634 <i>z/OS and z/VM HCD Messages</i> , SC33-7986
CBR	Object access method (OAM)	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634
CEE	Language Environment®	<i>z/OS Language Environment Debugging Guide</i> , GA22-7560
CHS	MVSSERV messages for the user and system programmer	<i>z/OS TSO/E Messages</i> , SA22-7786
CIM	Managed System Infrastructure for Setup (msys for Setup)	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634
CMP	Compression management services	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634
CLB	C/C++ class library runtime messages	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634

<b>Prefix</b>	<b>Component</b>	<b>Document title - order number</b>
CNL	MVS message service (MMS)	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
CNZ	Console Services	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634
COF	Virtual lookaside facility (VLF)	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634 <i>z/OS MVS Dump Output Messages</i> , SA22-7590 <i>z/OS TSO/E Messages</i> , GC28-1885
CRG	Context Services	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634
CRU	Integrated catalog forward recovery utility (ICFRU)	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634
CSQ	MQSeries®	<i>MQSeries for OS/390 V2R1 Messages and Codes</i> , GC34-5375
CSR	Callable services requests (CSR)	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
CSV	Contents supervision, virtual fetch, fetch	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
CSY	OPC/A Production Control System	<i>OPC/A Messages</i> , SH19-6448
CSZ	OPC/A Network Event Communicator	<i>OPC/A Messages</i> , SH19-6448
CTX	Context Services	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634
DFH	Customer Information Control System/Virtual Storage (CICS/VS)	<i>CICS/ESA® Messages and Codes</i> , SC33-0672
DFQ	Interactive storage management facility (ISMF)	Online only. To display the message explanation and suggested action, press the HELP key (PF1) twice when the message is currently displayed. Otherwise, go to ISPF option 7.2 Display Panel, enter the message ID in the message ID field, then press the HELP key (PF1) twice to show the message explanation. For more information, see the "Using Help Panels for Error Messages" topic in the <i>z/OS DFSMS Using the Interactive Storage Management Facility</i> , SC26-7411.
DGT	Interactive storage management facility (ISMF)	Online only. To display the message explanation and suggested action, press the HELP key (PF1) twice when the message is currently displayed. Otherwise, go to ISPF option 7.2 Display Panel, enter the message ID in the message ID field, then press the HELP key (PF1) twice to show the message explanation. For more information, see the "Using Help Panels for Error Messages" topic in the <i>z/OS DFSMS Using the Interactive Storage Management Facility</i> , SC26-7411.
DLX	DLF installation exit COFXDLF2	These messages are issued by the sample DLF installation exit, COFXDLF2, whose source can be found in SYS1.SAMPLIB. Because the issuing module is a "sample", which can be modified by the customer, the messages are not described in an IBM document.
DMO	Device Manager	<i>z/OS MVS System Messages, Vol 4 (CBD-DMO)</i> , SA22-7634 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
DQD	Cache RMF™ Reporter (CRR)	<i>Cache RMF Reporter Program Description/Operations Manual</i> , SH20-6295
DRK	OPC/A Event Manager Subsystem	<i>OPC/A Messages</i> , SH19-6448

<b>Prefix</b>	<b>Component</b>	<b>Document title - order number</b>
DSI	NetView®	<i>TME 10™ NetView for OS/390 Messages</i> , SC31-8237
DSM	Document Composition Facility	<i>DCF: Messages</i> , SH35-0048
DSM	Document Library Facility	<i>DCF: Messages</i> , SH35-0048
DSN	Database 2™	<i>DB2 Universal Database™ for OS/390 Messages and Codes</i> , GC26-9011
DZI	Overlay Generation Language	<i>IBM Overlay Generation Language/370 User's Guide and Reference</i> , S544-3702
DZJ	Print Management Facility	<i>Print Management Facility User's Guide and Reference</i> , SH35-0059
EDC	C/C++ Run-time Library	<i>z/OS Language Environment Debugging Guide</i> , GA22-7560
EDG	DFSMSrmm™	<i>z/OS MVS System Messages, Vol 5 (EDG-GFS)</i> , SA22-7635
ELM	IBM Communications Server — SNA	<i>z/OS Communications Server: SNA Messages</i> , SC31-8790
EQQ	OPC/ESA	<i>OPC/ESA Messages and Codes</i> , SH19-6719
ERB	Resource Measurement Facility (RMF)	<i>z/OS MVS System Messages, Vol 5 (EDG-GFS)</i> , SA22-7635 <i>z/OS RMF Messages and Codes</i> , SC33-7993
ERX	Graphical data display manager	<i>GDDM Messages</i> , SC33-0869
EWX	LANRES	<i>z/OS MVS System Messages, Vol 5 (EDG-GFS)</i> , SA22-7635
EZA	IBM Communication Server — IP	<i>z/OS Communications Server: IP Messages Volume 1 (EZA)</i> , SC31-8783
EZB	IBM Communication Server — IP	<i>z/OS Communications Server: IP Messages Volume 2 (EZB, EZD)</i> , SC31-8784
EZM	Application Enabling Technology (AET)/Auto UNIX System	<i>OS/390 Application Enabling Technology: Administration and Programming</i> , GC28-1993 <i>OS/390 Application Enabling Technology: Customization Guide</i> , GC28-1994 <i>OS/390 MVS System Messages (EWX-IEB)</i> , GC28-1786
EZY	z/OS Communication Server — IP	<i>z/OS Communications Server: IP Messages Volume 3 (EZY)</i> , SC31-8785
EZZ	z/OS Communication Server — IP	<i>z/OS Communications Server: IP Messages Volume 4 (EZZ, SNM)</i> , SC31-8786
FAN(G)	REXX/370 compiler	<i>IBM Compiler and Library for SAA REXX/370 User's Guide and Reference</i> , SH19-8160
FDBX	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FLM	Software configuration and library manager	<i>z/OS ISPF Messages and Codes</i>
FOMC	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FOMF	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FOMI	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FOMM	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FOMO	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FOMOA	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FOMOG	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FOMOH	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807

<b>Prefix</b>	<b>Component</b>	<b>Document title - order number</b>
FSUM	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FSUMA	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FSUMB	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FSUMF	UNIX System Services	<i>z/OS UNIX System Services Messages and Codes</i> , SA22-7807
FOR	LE FORTRAN Library	<i>IBM Language Environment for MVS &amp; VM FORTRAN Run-Time Migration Guide</i> , SC26-8499
GDE	Distributed FileManager/MVS (DFM/MVS)	<i>z/OS MVS System Messages, Vol 5 (EDG-GFS)</i> , SA22-7635
I GFSA	Network File System Server	<i>z/OS Network File System Guide and Reference</i> , SC26-7417
I GFSC	Network File System Server Client Messages	<i>z/OS Network File System Guide and Reference</i> , SC26-7417
GIM	SMP/E	<i>SMP/E Messages, Codes, and Diagnosis</i> ,
GQD	Graphical data display manager	<i>GDDM Messages</i> , SC33-0869
GQF	Graphical data display manager	<i>GDDM Messages</i> , SC33-0869
HASP	JES2, network job entry facility for JES2	<i>z/OS JES2 Messages</i> , SA22-7537
I HZS	IBM Health Checker for z/OS	<i>z/OS MVS System Messages, Vol 6 (GOS-IEA)</i> , SA22-7636
IAR	Real storage manager (RSM)	<i>z/OS MVS System Messages, Vol 6 (GOS-IEA)</i> , SA22-7636  <i>z/OS MVS Dump Output Messages</i> , SA22-7590
I IARH	Real storage manager (RSM)	<i>z/OS MVS System Messages, Vol 6 (GOS-IEA)</i> , SA22-7636
IAT	JES3	<i>z/OS JES3 Messages</i> , SA22-7552
I IAZ	JES Common	<i>z/OS MVS System Messages, Vol 6 (GOS-IEA)</i> , SA22-7636
ICE	DFSORT™ sort program	<i>z/OS DFSORT Messages, Codes and Diagnosis Guide</i> , SC26-7525
ICH	Resource Access Control Facility (RACF)	<i>z/OS Security Server RACF Messages and Codes</i> , SA22-7686
ICK	Device Support Facilities	<i>Device Support Facilities User's Guide and Reference</i> , GC35-0033
ICN	NCP/SSP/EP	<i>NCP/SSP/EP Messages and Codes</i> , SC30-3169
ICP	Input/Output Configuration Program (IOCP)	<i>z/OS MVS System Messages, Vol 6 (GOS-IEA)</i> , SA22-7636  <i>Input/Output Configuration Program User's Guide and Reference</i> , GC28-1027
ICQA	Information Center Facility administrator messages	<i>z/OS TSO/E Messages</i> , SA22-7786
ICQC	Information Center Facility user messages	<i>z/OS TSO/E Messages</i> , SA22-7786
ICT	Programmed Cryptographic Facility	<i>z/OS MVS System Messages, Vol 6 (GOS-IEA)</i> , SA22-7636
ICU	Cryptographic Unit Support	<i>z/OS MVS System Messages, Vol 6 (GOS-IEA)</i> , SA22-7636
IDA	Virtual storage access method (VSAM) control block expansion	<i>z/OS MVS System Messages, Vol 6 (GOS-IEA)</i> , SA22-7636
IDC	Access method devices	<i>z/OS MVS System Messages, Vol 6 (GOS-IEA)</i> , SA22-7636

<b>Prefix</b>	<b>Component</b>	<b>Document title - order number</b>
IEA	<ul style="list-style-type: none"> <li>• Allocation/unallocation</li> <li>• Auxiliary storage manager (ASM)</li> <li>• Contents supervision</li> <li>• Communications task (COMMTASK)</li> <li>• Data Facility Product (DFP) components</li> <li>• Generalized trace facility (GTF)</li> <li>• Initial program load (IPL)</li> <li>• Input/output supervisor (IOS)</li> <li>• Master scheduler</li> <li>• Nucleus initialization program (NIP)</li> <li>• Program Call authorization (PC/AUTH) service routines</li> <li>• Reconfiguration</li> <li>• Recovery termination manager (RTM)</li> <li>• Supervisor control</li> <li>• System resources manager</li> <li>• System trace</li> <li>• Timer supervision</li> <li>• Virtual storage management (VSM)</li> </ul>	<i>z/OS MVS System Messages, Vol 6 (GOS-IEA)</i> , SA22-7636 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IEB	Data Facility Product (DFP) utilities	<i>z/OS MVS System Messages, Vol 7 (IEB-IEE)</i> , SA22-7637
IEC	Data Facility Product (DFP) components	<i>z/OS MVS System Messages, Vol 7 (IEB-IEE)</i> , SA22-7637 <i>z/OS DFSMSdfp Diagnosis</i> , GY27-7618

<b>Prefix</b>	<b>Component</b>	<b>Document title - order number</b>
IEE	<ul style="list-style-type: none"> <li>• Auxiliary storage manager (ASM)</li> <li>• Communications task (COMMTASK)</li> <li>• Data Facility Product (DFP) components</li> <li>• JES2</li> <li>• JES3</li> <li>• Master scheduler</li> <li>• Reconfiguration</li> <li>• Recovery termination manager (RTM)</li> <li>• Supervisor control</li> <li>• System management facilities (SMF)</li> <li>• System resources manager (SRM)</li> <li>• System trace</li> <li>• Task management</li> <li>• Timer supervision</li> </ul>	<p><i>z/OS MVS System Messages, Vol 7 (IEB-IEE)</i>, SA22-7637</p> <p><i>z/OS MVS Dump Output Messages</i>, SA22-7590</p>
IEF	<ul style="list-style-type: none"> <li>• Allocation/unallocation</li> <li>• Converter/interpreter</li> <li>• Data Facility Product (DFP) components</li> <li>• Initial program load (IPL)</li> <li>• Initiator/terminator</li> <li>• JES/scheduler services</li> <li>• JES2</li> <li>• Master scheduler</li> <li>• Master subsystem/subsystem interface (MSI)</li> <li>• Reconfiguration</li> <li>• Scheduler JCL facilities (SJF)</li> <li>• Scheduler restart</li> <li>• Scheduler services (ENF)</li> <li>• System management facilities (SMF)</li> </ul>	<p><i>z/OS MVS System Messages, Vol 8 (IEF-IGD)</i>, SA22-7638</p> <p><i>z/OS MVS Dump Output Messages</i>, SA22-7590</p>
IEFC	Converter	<i>z/OS MVS System Messages, Vol 8 (IEF-IGD)</i> , SA22-7638
IEFI	Converter/interpreter	<i>z/OS MVS System Messages, Vol 8 (IEF-IGD)</i> , SA22-7638
IEH	Data Facility Product (DFP) utilities	<i>z/OS MVS System Messages, Vol 8 (IEF-IGD)</i> , SA22-7638
IEV	Assembler H	<i>Assembler H Version 2 Application Programming: Guide</i> , SC26-4036

<b>Prefix</b>	<b>Component</b>	<b>Document title - order number</b>
IEW	<ul style="list-style-type: none"> <li>• DFSMS</li> <li>• Linkage editor</li> <li>• Binder</li> <li>• Transport utility</li> <li>• Loader</li> </ul>	<i>z/OS MVS System Messages, Vol 8 (IEF-IGD)</i> , SA22-7638
IFA	System management facilities (SMF)	<i>z/OS MVS System Messages, Vol 8 (IEF-IGD)</i> , SA22-7638 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IFB	Input/output environment recording routines: OBR and SVC 76	<i>z/OS MVS System Messages, Vol 8 (IEF-IGD)</i> , SA22-7638
IFC	IFCDIP00 service aid for the logrec data set  IFCEREP0 and IFCEREP1 service aids	<i>z/OS MVS System Messages, Vol 8 (IEF-IGD)</i> , SA22-7638  <i>Environmental Record Editing and Printing Program (EREP) User's Guide and Reference</i> , GC28-1378
IFD	Online test executive program (OLTEP)	<i>OS/390 MVS System Messages, Vol. 4</i> , GC28-1787
IFL	Network Control Program (NCP)  Advanced Communications Function (ACF) for Network Control Program (NCP)	<i>3704 and 3705 Control Program Generation and Utilities Guide and Reference Manual</i> , GC30-3008  <i>Network Control Program/System Support Programs/Emulation Programs Messages and Codes</i> , SC30-3169
IFO	MVS Assembler	<i>OS/VS - VM/370 Assembler Programmer's Guide</i> , GC33-4021
IGD	Storage management subsystem (SMS) of Data Facility Product (DFP)	<i>z/OS MVS System Messages, Vol 8 (IEF-IGD)</i> , SA22-7638  <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IGF	Dynamic device reconfiguration (DDR) Machine check handler (MCH)	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639
IGGN	Data Facility Product (DFP)	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639
IGV	Virtual storage management (VSM)	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639
IGW	Data Facility Product (DFP) Storage management subsystem (SMS)	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639  <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IGY	VS COBOL II	<i>VS COBOL II Application Programming Guide</i> , SC26-4045
IGZ	VS COBOL II	<i>VS COBOL II Application Programming: Debugging</i> , SC26-4049,  <i>z/OS Language Environment Debugging Guide</i> , GA22-7560
IHJ	Data Facility Product (DFP) checkpoint/scheduler restart	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639
IKF	VS COBOL II	<i>VS COBOL II Application Programming: Debugging</i> , SC26-4049
IKJ	Time Sharing Option Extensions (TSO/E)	<i>z/OS TSO/E Messages</i> , SA22-7786  <i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639  <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IKM	Programming Language/I (PL/I) syntax checker	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639

<b>Prefix</b>	<b>Component</b>	<b>Document title - order number</b>
IKT	Time Sharing Option Extensions (TSO/E)  IBM Communications Server — SNA	<i>z/OS TSO/E Messages</i> , SA22-7786, SC27-0614, SC27-0470, SC23-0114  <i>z/OS Communications Server: SNA Messages</i> , SC31-8790
ILM	IBM License Manager	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639
ILR	Auxiliary storage manager (ASM)	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639
ILX	VS FORTRAN Compiler	<i>VS FORTRAN Version 2 Programming Guide for CMS and MVS</i> , SC26-4222
IHV	System Automation for OS/390	<i>IBM Tivoli System Automation for z/OS Messages and Codes</i>
ING	System Automation for OS/390	<i>IBM Tivoli System Automation for z/OS Messages and Codes</i> , SC33-8264
INM	Interactive Data Transmission Facility (IDTF) TRANSMIT and RECEIVE commands	<i>z/OS TSO/E Messages</i> , SA22-7786
IOAC	Open Systems Adapter-Express (OSA-Express)	<i>System z9 and zSeries OSA-Express Customer's Guide and Reference</i> , SA22-7935
IOP	Input/output configuration program (IOCP)	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639
IOS	Input/output supervisor (IOS)	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639  <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IPD	FORTRAN syntax checker	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639
IRA	System resources manager (SRM)	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639  <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IRD	ESCON® Director Device Support (EDDS)	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639
IRR	Resource Access Control Facility (RACF)	<i>z/OS Security Server RACF Messages and Codes</i> , SA22-7686
IRX	Time Sharing Option Extensions (TSO/E) restructured extended executor language (REXX)	<i>z/OS TSO/E Messages</i> , SA22-7786
ISG	Global resource serialization	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639  <i>z/OS MVS Dump Output Messages</i> , SA22-7590
ISN	Service Processor Interface	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639
ISP	Interactive system productivity facility	<i>z/OS ISPF Messages and Codes</i>
ISQ	System Automation for OS/390	<i>IBM Tivoli System Automation for z/OS Messages and Codes</i>
ISRB	Interactive system productivity facility	<i>z/OS ISPF Messages and Codes</i>
ISRL	Library management facility	<i>z/OS ISPF Messages and Codes</i>
IST	IBM Communications Server — SNA	<i>z/OS Communications Server: SNA Messages</i> , SC31-8790
ISU	IBM Communications Server — SNA	<i>z/OS Communications Server: SNA Messages</i> , SC31-8790

<b>Prefix</b>	<b>Component</b>	<b>Document title - order number</b>
ITA	TOLTEP for Advanced Communications Function for Virtual Telecommunications Access Method (ACF/VTAM®)	<i>Advanced Communications Function for VTAM® Messages and Codes</i> , SC27-0614, SC27-0470, SC23-0114
ITT	Component trace	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
ITV	Data-in-virtual	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
ITZ	Transaction trace	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IST	IBM Communications Server — SNA	<i>z/OS Communications Server: SNA Messages</i> , SC31-8790
IVT	IBM Communications Server — SNA	<i>z/OS Communications Server: SNA Messages</i> , SC31-8790
IWM	Workload manager (WLM)	<i>z/OS MVS System Messages, Vol 9 (IGF-IWM)</i> , SA22-7639 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IXC	Cross-system coupling facility (XCF)	<i>z/OS MVS System Messages, Vol 10 (IXC-IZP)</i> , SA22-7640 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IXG	System logger (SCLOG)	<i>z/OS MVS System Messages, Vol 10 (IXC-IZP)</i> , SA22-7640
IXL	Cross System Extended Services® (XES)	<i>z/OS MVS System Messages, Vol 10 (IXC-IZP)</i> , SA22-7640 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IXP	Input/output configuration program (IOCP)	<i>z/OS MVS System Messages, Vol 10 (IXC-IZP)</i> , SA22-7640 <i>ES/9000 ES/3090™ IOCP User's Guide Volume A04</i> , GC38-0097
IXZ	JES common coupling services (JESXCF)	<i>z/OS MVS System Messages, Vol 10 (IXC-IZP)</i> , SA22-7640 <i>z/OS MVS Dump Output Messages</i> , SA22-7590
IYP	Input/output configuration program (IOCP)	<i>z/OS MVS System Messages, Vol 10 (IXC-IZP)</i> , SA22-7640 <i>zSeries™ 900 IOCP User's Guide for IYP IOCP</i> , SB10-7029
IZP	Input/output configuration program (IOCP)	<i>z/OS MVS System Messages, Vol 10 (IXC-IZP)</i> , SA22-7640 <i>ES/9000 IOCP User's Guide and ESCON CTC Reference Volume A04</i> , GC38-0401
SNM	IBM Communication Server — IP	<i>z/OS Communications Server: IP Messages Volume 4 (EZZ, SNM)</i> , SC31-8786
USS	IBM Communications Server — SNA	<i>z/OS Communications Server: SNA Messages</i> , SC31-8790

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## Message translation

Through the MVS message service (MMS), you can translate MVS system messages into other languages. Messages that cannot be translated include the following:

- Initialization messages
- DFSMS/MVS messages
- JES3 messages

- Some complicated multiple-line messages

See *z/OS MVS Planning: Operations* and *z/OS MVS Programming: Assembler Services Guide* for information about using the MMS.

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## **Summary of changes**

New, changed, or deleted messages can affect your system's automation routines. To ensure that your installation's automation routines are current, review the new, changed, and deleted messages listed in *z/OS Summary of Message and Interface Changes*. *z/OS Summary of Message and Interface Changes* is available on the *z/OS Collection*, SK3T-4269 and in the *z/OS Internet library* at:

<http://www.ibm.com/servers/eserver/zseries/zos/bkserv/>

**Summary of changes  
for SA22-7633-12  
z/OS Version 1 Release 8  
as updated April 2007**

The document contains information previously presented in *z/OS MVS System Messages, Vol 3 (ASB-BPX)*, SA22-7633-11, which supports z/OS Version 1 Release 8.

This document contains terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations are indicated by a vertical line to the left of the change.

You may notice changes in the style and structure of some content in this document—for example, headings that use uppercase for the first letter of initial words only, and procedures that have a different look and format. The changes are ongoing improvements to the consistency and retrievability of information in our documents.

**Summary of changes  
for SA22-7633-11  
z/OS Version 1 Release 8**

The document contains information previously presented in *z/OS MVS System Messages, Vol 3 (ASB-BPX)*, SA22-7633-10, which supports z/OS Version 1 Release 7.

This document contains terminology, maintenance, and editorial changes, including changes to improve consistency and retrievability.

**Summary of changes  
for SA22-7633-10  
z/OS Version 1 Release 7  
as updated April 2006**

The document contains information previously presented in *z/OS MVS System Messages, Vol 3 (ASB-BPX)*, SA22-7633-09, which supports z/OS Version 1 Release 7.

This document contains terminology, maintenance, and editorial changes, including changes to improve consistency and retrievability.

**Summary of changes  
for SA22-7633-09  
z/OS Version 1 Release 7  
as updated September 2005**

The document contains information previously presented in *z/OS MVS System Messages, Vol 3 (ASB-BPX)*, SA22-7633-08, which supports z/OS Version 1 Release 7.

This document contains terminology, maintenance, and editorial changes, including changes to improve consistency and retrievability.

**Summary of changes  
for SA22-7633-08  
z/OS Version 1 Release 7**

The document contains information previously presented in *z/OS MVS System Messages, Vol 3 (ASB-BPX)*, SA22-7633-07, which supports z/OS Version 1 Release 6.

**Changed information:**

- References to OpenEdition have been replaced with z/OS UNIX System Services or z/OS UNIX.

This document contains terminology, maintenance, and editorial changes, including changes to improve consistency and retrievability.

**Summary of changes  
for SA22-7633-07  
z/OS Version 1 Release 6  
as updated April, 2005**

The document contains information previously presented in *z/OS MVS System Messages, Vol 3 (ASB-BPX)*, SA22-7633-06, which supports z/OS Version 1 Release 6.

This document contains terminology, maintenance, and editorial changes, including changes to improve consistency and retrievability.

**Summary of changes  
for SA22-7633-06  
z/OS Version 1 Release 6  
as updated March 2005**

The document contains information previously presented in *z/OS MVS System Messages, Vol 3 (ASB-BPX)*, SA22-7633-05, which supports z/OS Version 1 Release 6.

This document contains terminology, maintenance, and editorial changes, including changes to improve consistency and retrievability.

**Summary of changes  
for SA22-7633-05  
z/OS Version 1 Release 6**

The document contains information previously presented in *z/OS MVS System Messages, Vol 3 (ASB-BPX)*, SA22-7633-04, which supports z/OS Version 1 Release 5.

Messages now contain the appropriate routing and descriptor codes.

This document contains terminology, maintenance, and editorial changes, including changes to improve consistency and retrievability.

**Summary of changes  
for SA22-7633-04  
z/OS Version 1 Release 5**

The document contains information previously presented in *z/OS MVS System Messages, Vol 3 (ASB-BPX)*, SA22-7633-03, which supports z/OS Version 1 Release 4.

This document contains terminology, maintenance, and editorial changes, including changes to improve consistency and retrievability.



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# Chapter 1. Introduction

The z/OS operating system issues messages from z/OS elements and features, and from program products and application programs running on the system. The system issues messages in different ways and to different locations:

- Most messages are issued through WTO and WTOR macros to one of the following locations:
  - Console
  - Hard-copy log
  - Job log
  - SYSOUT data set
- Routing codes determine where the messages are displayed or printed. The routing codes for messages issued by the operating system are included with each message.
- Other messages are issued through the WTL macro or the LOG operator command to the system log (SYSLOG).
- Dump messages are issued through the dumping services routines and can appear in:
  - SVC dumps, stand-alone dumps, or SYSMDUMP ABEND dumps formatted by the interactive problem control system (IPCS)
  - Trace data sets formatted by the interactive problem control system (IPCS)
  - ABEND dumps or SNAP dumps produced by the dumping services
- In dump or trace data sets formatted by IPCS, the messages appear interactively on a terminal or in a printed dump.
- Some messages are issued through DFSMS/MVS access methods directly to one of the following locations:
  - Output data set
  - Display terminal

---

## Locations

### Console

Messages sent to a multiple console support (MCS) console, an SNA multiple console support (SMCS) console, or an extended MCS (EMCS) console are intended for the operators. Operations can control which messages are displayed. See *z/OS MVS Planning: Operations* for information about controlling message display.

The system writes in the hard-copy log all messages sent to a console, whether the message is displayed or not.

### OPERLOG

- | The operations log (OPERLOG) records all message traffic from each system in a sysplex that activates the OPERLOG. The operations log consists of the following data:
  - Messages to and from all consoles
  - Commands and replies entered by the operator

### System Log

The system log (SYSLOG) is a SYSOUT data set that stores the messages and commands from the current system. SYSOUT data sets are output spool data sets on direct access storage devices (DASD) provided by the job entry subsystem (either JES2 or JES3). An installation usually prints the system log periodically. The system log consists of:

- All messages issued through WTL macros
- All messages entered by operator LOG commands

- Usually, the hard-copy log
- Any messages routed to the system log from any system component or program

## Job Log

Messages sent to the job log are intended for the programmer who submitted a job. The job log is specified in the system output class on the MSGCLASS parameter of the JCL JOB statement.

## SYSOUT Data Set

Messages sent to a SYSOUT data set are intended for a programmer. These messages are issued by an assembler or compiler, the linkage editor and loader, and an application program. If the SYSOUT data set and the MSGCLASS parameter on the JCL JOB statement specify the same class, all messages about a program will appear in the same SYSOUT listing.

## Messages

A displayed or printed message can appear by itself or with other information, such as a time stamp. The following topic shows the format of the message. Then the topics show the information accompanying the message on the MCS console and on the hard-copy log in a JES2 system and a JES3 system.

## Message Format

```
id CCCnnn text
id CCCnnns text
id CCCnnnns text
id CCCnnnnns text
id CCCSnnns text
```

**id** Reply identifier: It is optional. It appears if an operator reply is required. The operator specifies it in the reply.

**CCCNnn, CCCnnns, CCCnnnns, CCCnnnnns, CCCSnnns**

Message identifier.

**CCC**

A prefix to identify the component, subsystem, or product that produced the message. The prefix is three characters.

**S** The subcomponent identifier, which is an optional addition to the prefix to identify the subcomponent that produced the message. The subcomponent identifier is one character.

**nnn, nnnn, nnnnn**

A serial number to identify the individual message. The serial number is three, four, or five decimal digits.

**s** An optional type code, which is one of the following:

**A** **Action:** The operator must perform a specific action.

**D** **Decision:** The operator must choose an alternative.

**E** **Eventual action:** The operator must perform action when time is available.

**I** **Information:** No operator action is required.

**S** **Severe error:** Severe error messages are for a system programmer.

**W** **Wait:** Processing stops until the operator performs a required action.

For messages with the prefix ADR, the type codes depend on whether the message is issued to the operator console or to SYSPRINT. For console messages, the type codes indicate the operator action:

- A**   **Action:** Operator must perform a specific action.
- D**   **Decision:** Operator must choose an alternative action.
- I**   **Information:** No operator action is required.
- W**   **Attention:** No operator action is required, but an error occurred.

For SYSPRINT messages, the type code indicates the severity:

- I**    Informational message.
- W**    Attention message. Task continues, but an error occurred.
- E**    Error message. The particular task might end or might continue without completing all requests.
- T**    Termination message. DFSMSdss™ ends.

For messages with the prefix BFS, the type codes indicate the severity of the detected error and are:

- E**   **Error.** Operator action is required.
- I**   **Information**
- W**   **Attention**

For messages with the EWX prefix, an 11-character message exists of the form **EWXffffnnnns**:

- EWX**    LANRES product code
- fff**    Function (module) identifier
- nnnn**    Message number
- s**    Severity code. Severity codes can be:
  - E**    Error. Action is required.
  - I**    Information. Action is not required.
  - S**    Severe Error. Action is required.
  - W**    Attention. Action may be required.

In the EWX messages, the three-character function identifiers are as follows:

*Table 1. EWX Message Module Identifiers*

Module ID	Function	Sending Command
ADM	Administration	EWXADMIN commands
COM	Host communications	All commands
DSK	Disk serving	Disk serving commands
DST	Distribution	EWXDS commands
PHL	Host-to-LAN print	EWXHLSRV
PLH	LAN-to-host print	EWXLHSRV
RES	Host session initialization	EWXCONN
SRV	NetWare service	EWXNWSRV

**Note:** When the term "MMC" is used in the messages, it is also referring to the System/370™ Parallel Channel Adapter feature of the IBM 3172-3 interconnect controller.

For messages with the prefix CNLC, the type codes indicate the severity of the detected error and are:

- E      Error**
- I      Information**
- S      Severe**
- W      Attention**

Messages with the prefix IEW and numbered in the range 2000 through 2999 have the following format:

<message number> <internal code> <message text>

The internal codes are not documented because they are used for diagnostic purposes.

The following type codes indicate the severity of the detected error:

- E      Error:** Severity 8
- I      Information:** Severity 0
- S      Severe error:** Severity 12
- T      Terminating error:** Severity 16
- W      Attention:** Severity 4

For messages with the prefix IGW01, the type codes indicate the severity of the detected error and are:

- E      Error:** Return code 8
- I      Information:** Return code 0
- S      Severe:** Return code 16
- T      Ending:** Return code 12
- W      Attention:** Return code 4

#### **text**

Text: The text provides information, describes an error, or requests an operator action.

Messages with the prefix IDA are preceded by a 2-digit severity code:

- 04      Attention:** Processing may be successful.
- 08      Error:** Processing may fail.
- 12      Serious error:** Processing will probably fail.

Some messages have asterisks (\*) before or after the message identifier. Two asterisks after the message identifier for IDC messages indicates a second-level message that further explains a preceding message.

# How Messages are Explained in this Book

The following describes the different parts of message explanations in this book:

## Explanation

The meaning of the message, including why the system issued the message.

## System Action

- What the system did as a result of the system condition reported by the message. A system condition could include running out of storage, a hardware or software failure, an abend, a wait state.
- What the system did as a result of user input. User input can include a system command, a job running on the system, a transaction, a query, or another user-system interaction.

## Operator Response

Instructions for the system operator, including, as appropriate, decisions to make and actions to take.

Only provided for messages that could appear at the operator console.

## User Response

Instructions for the end user.

Only provided for messages that could appear at an interactive interface such as a TSO/E terminal or ISPF application.

**Note:** Most user messages are explained in other message books, such as *z/OS TSO/E Messages*.

## Application Programmer Response

Instructions for an application programmer.

Only provided for messages that could appear in SYSOUT produced by a job, for example SPZAP.

## System Programmer Response

Instructions for the system programmer.

Only provided for messages that require additional action beyond the operator response, user response, or application programmer response.

## Storage Administrator Response

Instructions for the DFSMSdfp storage administrator.

## Security Administrator Response

Instructions for the security administrator.

Only provided for security-related messages.

## Problem Determination

Additional instructions for determining the cause of the problem, searching problem databases, and, if necessary, reporting the problem to the IBM support center. These instructions are for a customer support person who can troubleshoot problems, such as the system programmer or system administrator, an experienced security administrator, or an experienced storage administrator.

For additional information on performing problem determination procedures, see *z/OS Problem Management* and the appropriate diagnosis guide for the product or element issuing the message, such as:

- DFSMS/MVS diagnosis guides and references
- *z/OS JES2 Diagnosis*
- *z/OS JES3 Diagnosis*

**Source**

Element, product, or component that issued the message.

**Detecting Module**

Name of the module or modules that detected the condition that caused the message to be issued.

**Routing Code**

For WTO or WTOR messages, the routing code of the message.

**Descriptor Code**

For WTO or WTOR messages, the descriptor code of the message.

## Messages Sent to MCS/SMCS Consoles

Messages sent to MCS/SMCS consoles appear in one of the following formats:

- The MFORM parameter in the OPERPARM segment in the CONSOLxx parmlib member
- The MFORM parameter on the CONTROL S operator command.

```
f hh.mm.ss sysname jobname message
f hh.mm.ss sysname message
f hh.mm.ss jobname message
f hh.mm.ss message
f sysname jobname message
f sysname message
f jobname message
f message
```

**f** A screen character to indicate the status of certain messages, as follows:

- I The operator has performed the action required for the message. The message has been deleted.
- The message is for information only; no operator action is required. The message was issued by the system or by a problem program.
- \* The message requires specific operator action and was issued by a WTOR or by an authorized program. The message has a descriptor code of 1, 2, or 11.
- @ The message requires specific operator action and was issued by a WTOR or by a problem program. The message has a descriptor code of 1, 2, or 11.
- + The message requires no specific operator action and was issued by a problem program using a WTO macro.
- blank** The message requires no specific operator action.

**hh.mm.ss**

Time stamp: the hour (00-23), minute (00-59), and second (00-59).

**sysname**

System name for the system that issued the message.

**jobname**

Job name for the task that issued the message. This field is blank if a job did not issue the message.

**message**

Reply identifier, message identifier, and text.

## Messages Sent to Hard-Copy Log in JES2 System

Multiple console support (MCS) handles message processing in:

- A JES2 system
- A JES3 system on a local processor

- A JES3 system on a global processor, if JES3 has failed

MCS sends messages with routing codes 1, 2, 3, 4, 7, 8, and 10 to the hard-copy log when display consoles are used or more than one console is active. All other messages can be routed to the hard-copy log by a system option or a VARY HARDCPY operator command.

Messages sent to the hard-copy log appear in the format:

tcrrrrrrr	sysname	yyddd	hh:mm:ss.th	ident	msgflags	message
t						message
t				1id		message

**t** The first character on the line indicates the record type:

- D** Data line of a multiple-line message; this line may be the last line of the message.
- E** End line or data-end line of a multiple-line message.
- L** Label line of a multiple-line message.
- M** First line of a multiple-line message.
- N** Single-line message that does not require a reply.
- O** Operator LOG command.
- S** Continuation of a single-line message or a continuation of the first line of a multi-line message. This continuation may be required because of the record length for the output device.
- W** A message that requires a reply.
- X** A log entry that did not originate with a LOG command or a system message.

**c** The second character on the line indicates whether the line was generated because of a command:

- C** Command input.
- R** Command response.
- I** Command issued internally. The job identifier contains the name of the internal issuer.
- blank** Neither command input nor command response.

#### **rrrrrrr**

Hexadecimal representation of the routing codes 1 through 28. To understand this hexadecimal number, convert it to binary; each binary 1 represents a routing code. For example, X'420C' represents routing codes 2, 7, 13, and 14 as shown here:

Hexadecimal:	4	2	0	C
Binary:	0 1 0 0	0 0 1 0	0 0 0 0	1 1 0 0
Routing Codes:	1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16

#### **sysname**

The system name from the SYSNAME parameter in parmlib.

#### **yyddd**

The Julian date, given as the year (00-99) and the day of the year (000-366).

**Note:** If HCFORMAT(CENTURY) is specified in the CONSOLxx parmlib member, the Julian date appears as *yyyyddd*.

#### **hh:mm:ss.th**

Time stamp, given as the hour (00-23), minute (00-59), second (00-59), and hundredths of a second (00-99).

**ident**

The job identifier for the task that issued the message, if the second character on the line is blank.

If the second character on the line is C or R, this field contains one of the following:

<b>jobid</b>	The job identifier of the task that issued the message, if it was issued by a job.
<b>consname</b>	Console name of the console which issued the command or received the message.
<b>INTERNAL</b>	For a command generated by a problem program or the system.
<b>INSTREAM</b>	For a command read from the input stream.
<b>blank</b>	If MCS could not determine the source or destination for the message.

**lid** Multiple-line identifier for the second and succeeding lines of a multiple-line message. This field appears after the message text (1) on the first line or (2) in the message area and is not followed by text on a continuation of the first line. The identifier appears on all lines of the same message.

**msgflags**

Installation exit and message suppression flags. For information about the description of the hardcopy log message flags, see HCL in *z/OS MVS Data Areas, Vol 2 (DCCB-ITZYRETC)*.

**message**

Reply identifier, message identifier, and text. The reply identifier and message identifier appear only on the first line of a multiple-line message.

## Messages Sent to Hard-Copy Log in JES3 System

Messages sent to the JESMSG hard-copy log in a JES3 system appear in the format:

hh:mm:ss message
------------------

Messages sent to the MLOG/DLOG hard-copy log in a JES3 system appear as follows:

```

C3E0SY1 05311 0841114 +I 0
C3E0SY1 05311 0841114 IAT8589 CONSOLE DISPLAY
C3E0SY1 05311 0841114 NAME COUNT SWITCH LL AUTH SAVEMSG
C3E0SY1 05311 0841114 SPC74 00000001 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(BROADCAST)
C3E0SY1 05311 0841114 DEST CLASS=(ALL)
C3E0SY1 05311 0841114 WS77S 00000000 0120 10 YES
C3E0SY1 05311 0841114 ROUTE CODE=(NONE)
C3E0SY1 05311 0841114 DEST CLASS=(NONE)
C3E0SY1 05311 0841114 S8100 00000000 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(NONE)
C3E0SY1 05311 0841114 DEST CLASS=(NONE)
C3E0SY1 05311 0841114 S0400 00000000 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(NONE)
C3E0SY1 05311 0841114 DEST CLASS=(NONE)
C3E0SY1 05311 0841114 W8100 00000000 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(NONE)
C3E0SY1 05311 0841114 DEST CLASS=(NONE)
C3E0SY1 05311 0841114 W0400 00000000 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(NONE)
C3E0SY1 05311 0841114 DEST CLASS=(NONE)
C3E0SY1 05311 0841114 W3774 00000000 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(NONE)
C3E0SY1 05311 0841114 DEST CLASS=(NONE)
C3E0SY1 05311 0841114 B0001 00000000 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(NONE)
C3E0SY1 05311 0841114 DEST CLASS=(NONE)
C3E0SY1 05311 0841114 T0001 00000002 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(BROADCAST,HARDCOPY,3,7-10,41-128)
C3E0SY1 05311 0841114 DEST CLASS=(TOTAL)
C3E0SY1 05311 0841114 T0002 00000000 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(NONE)
C3E0SY1 05311 0841114 DEST CLASS=(NONE)
C3E0SY1 05311 0841114 T0003 00000000 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(NONE)
C3E0SY1 05311 0841114 DEST CLASS=(NONE)
C3E0SY1 05311 0841114 T0004 00000002 0120 15 YES
C3E0SY1 05311 0841114 ROUTE CODE=(BROADCAST,HARDCOPY,3,7-10,41-128)
C3E0SY1 05311 0841114 DEST CLASS=(TOTAL)

```

Messages sent to the MLOG/DLOG hard-copy log appear in the format:

dest console yyddd hhmmssstia[prefix] message
---

## **dest**

JES3 destination class, which corresponds to the MVS routing code.

## **console**

JES3 or MVS console name, as follows:

**blank** For a message issued without a console name.

**nnnnn** The JES3 console name (JNAME) from the JES3 initialization stream. This applies to remote consoles only.

**cnname** The MCS console name, as specified on the NAME(cnname) parameter under the CONSOLE definition in SYS1.PARMLIB(CONSLxx).

**INTERNAL** For a command generated by a problem program or operating system routine.

**NETWORK** For a message issued to the network job entry (NJE) console.

## **yyddd**

The Julian date, given as the year (00-99) and the day of the year (000-366).

**Note:** If HCFORMAT(CENTURY) is specified in the CONSLxx parmlib member, the Julian date appears as *yyyyddd*.

### **hhmmss**

Time stamp, given as the hour (00-23), minute (00-59), second (00-59), and tenth of a second (0-9).

### **i Attention indicator for JES3 space constraints, as follows:**

<b>blank</b>	Normal output or no action required.
<b>#</b>	The message is rerouted automatically or by a command from another console.
<b>%</b>	Minimum space (track) situation (JSAM).
<b>=</b>	Marginal space (track) situation (JSAM).
<b>&lt;</b>	Minimum buffer situation (JSAM).

**Note:** The above four symbols can be changed by a CONSTD statement in the JES3 initialization stream.

### **a Action prefix character, as follows:**

<b>blank</b>	Normal message.
<b>+</b>	JES3 input command, issued on the global processor.
<b>-</b>	MVS input command, issued on the global processor.
	Operator action required.

### **prefix**

#### **sysname R=jobname**

Optional prefix for messages issued outside the JES3 address space or on a local processor, as follows:

#### **sysname**

The name of the system where the issuing program is running. JES3 determines the name from the ID parameter on the MAINPROC statement in the JES3 initialization stream.

#### **jobname**

The job name of the issuing program. It is all blanks for an system routine.

### **message**

Reply identifier, message identifier, and text.

## **Messages Sent to the Job Log, to Other Data Sets, and to Display Terminals**

Messages sent to the job log, to other data sets, and to display terminals appear in the format designed by the program that issued them.

## **Truncated Data in Multi-line Messages**

Under any one of the following conditions, the system might need to truncate a multi-line message:

- When a message is being transported from one system to another in a sysplex, the sending or receiving system might encounter an error that prevents some or all of the message text from appearing. This can be caused by any of the following:
  - The issuing system is stopped or quiesced.
  - The issuing system fails to end a multi-line message.
  - The issuing system has an XCF buffer shortage.
  - A disruption occurs in sysplex communication.
  - An error occurs on the receiving system.

When one of the above conditions occurs, one of the following messages can appear within the message text, indicating such an error:

LOSS OF DATA - MESSAGE COMPLETION FORCED  
LOSS OF INTERMEDIATE MESSAGE DATA

- When no data line or endline has been issued for a multi-line message after an interval of thirty seconds, the system issues the following endline:  
MESSAGE TIMED OUT - MESSAGE COMPLETION FORCED
- When a connect request exceeds the limit of 65533 lines, the system truncates the message with the following text:  
EXCEEDED LINE LIMIT - MESSAGE COMPLETION FORCED
- When a multi-line message is issued with no end line, and it is not possible for the system to obtain space to temporarily store the message, the system truncates the message with the following text:  
CONNECT UNAVAILABLE - MESSAGE COMPLETION FORCED
- When a multi-line connect request is issued, and the system is unable to obtain space to store the connecting lines, the system truncates the message with the following text:  
CONNECT UNSUCCESSFUL - MESSAGE COMPLETION FORCED
- When a message is too long to fit into 80% of the Console message cache, the system truncates the message with the following text:  
MESSAGE TRUNCATED FOR CONSOLE MESSAGE CACHE
- When there is a shortage of WTO buffers for display on MCS consoles, the screen display may be truncated with one of the following lines of text:  
NUMBER OF LINES EXCEEDED MLIM - MESSAGE TRUNCATED  
STORAGE CONSTRAINT - MESSAGE TRUNCATED

---

## Routing Codes

Routing codes send system messages to the consoles where they are to be displayed. More than one routing code can be assigned to a message to send it to more than one console. For more information on message routing, see the following books:

- *z/OS MVS Programming: Authorized Assembler Services Guide*
- *z/OS MVS Programming: Authorized Assembler Services Reference SET-WTO*
- *z/OS MVS Installation Exits*
- *z/OS MVS Initialization and Tuning Reference*

## Specification

The routing codes are specified in the ROUTCDE parameter of the WTO or WTOR macro. If you specify a message which contains no routing codes, MVS may provide one or more default routing codes, based upon the presence or lack of other queuing specifications.

If you specify a message containing descriptor codes but no routing codes and no target console, MVS will not assign any routing codes and will write the message to the hardcopy log.

If you specify a message containing no routing codes, no descriptor codes, and no target console, MVS will assign a default set of routing codes. This set of default routing codes is specified at MVS initialization on the DEFAULT statement in your CONSOLxx parmlib member. If a set of default routing codes was not provided on the DEFAULT statement, MVS will assign routing codes 1 through 16.

## Routing Code Meaning

---

### Programming Interface information

---

Code	Meaning
1	Operator Action

- | The message indicates a change in the system status. It demands action by a primary operator.
- 2 Operator Information**
- | The message indicates a change in system status. It does not demand action; rather, it alerts a primary operator to a condition that might require action.
- This routing code is used for any message that indicates job status when the status is not requested specifically by an operator inquiry. It is also used to route processor and problem program messages to the system operator.
- 3 Tape Pool**
- The message gives information about tape devices, such as the status of a tape unit or reel, the disposition of a tape reel, or a request to mount a tape.
- 4 Direct Access Pool**
- The message gives information about direct access storage devices (DASD), such as the status of a direct access unit or volume, the disposition of a volume, or a request to mount a volume.
- 5 Tape Library**
- The message gives tape library information, such as a request by volume serial numbers for tapes for system or problem program use.
- 6 Disk Library**
- The message gives disk library information, such as a request by volume serial numbers for volumes for system or problem program use.
- 7 Unit Record Pool**
- The message gives information about unit record equipment, such as a request to mount a printer train.
- 8 Teleprocessing Control**
- The message gives the status or disposition of teleprocessing equipment, such as a message that describes line errors.
- 9 System Security**
- The message gives information about security checking, such as a request for a password.
- 10 System/Error Maintenance**
- The message gives problem information for the system programmer, such as a system error, an uncorrectable I/O error, or information about system maintenance.
- 11 Programmer Information**
- This is commonly referred to as write to programmer (WTP). The message is intended for the problem programmer. This routing code is used when the program issuing the message cannot route the message to the programmer through a system output (SYSOUT) data set. The message appears in the JESYMSG data set.
- 12 Emulation**
- The message gives information about emulation. (These message identifiers are not included in this publication.)
- 13-20** For customer use only.
- 21-28** For subsystem use only.

<b>29</b>	Disaster recovery.
<b>30-40</b>	For IBM use only.
<b>41</b>	The message gives information about JES3 job status.
<b>42</b>	The message gives general information about JES2 or JES3.
<b>43-64</b>	For JES use only.
<b>65-96</b>	Messages associated with particular processors.
<b>97-128</b>	Messages associated with particular devices.

**End of Programming Interface information**

## Routing Codes in this Book

Routing codes appear within the associated message. The routing code field can also contain the following special characters or notes:

- \* The message will be routed back to the consoles that initiated the associated requests.
- / The message will be routed to different locations according to the task issuing it. For example, \*/2/3 means the message is routed back to the console that initiated the request, to a primary operator, or to the tape pool.
- # The message will be routed in one of the following ways:
  - According to the routing indicators specified by the operator
  - According to the default routing instructions previously specified by the operator
  - Back to the console that initiated the associated request
- The message has no routing code.
- N/A A routing code is not applicable for the message.
- Note 2** The message is issued by a WTO or WTOR macro, but has no routing or descriptor codes (old format WTO or WTOR macro).
- Note 3** The message has a routing code of 1, which sends the message to a primary operator, and the message is also routed to the console that it describes.
- Note 4** The message is sent to all active consoles; this is a broadcast message.
- Note 5** The message has a routing code of 2, which sends the message to a primary operator.
- Note 6** The message is routed only to non-printer consoles. This message is not issued by a WTO or WTOR macro.
- Note 7** The message is routed to consoles where one or more of the following are active:
  - MONITOR JOBNAMES
  - MONITOR SESSIONS
  - MONITOR STATUS
- Note 9** The message is issued during the nucleus initialization program (NIP) processing.
- Note 10** The message is issued by the WTL macro.
- Note 11** The message is routed to a SYSPRINT data set by data management.
- Note 12** The message is issued by a WTO or WTOR macro with SYNCH=YES. See *z/OS MVS Initialization and Tuning Reference* for more information.
- Note 13** The message is routed only to receivers of the hardcopy message set.

- Note 14** The message is routed back to the console that initiated the request and to all associated consoles.
- Note 16** The message is routed to the IPCS print file IPCSPRNT.
- Note 17** The message is issued by JES3. A JES3 destination class is specified either by the initialization stream or by operator commands.
- Note 18** The message is sent in response to a command to the console where the command was entered.
- Note 19** The message is written to a data set. If routing and descriptor codes are also included for the message, the message might also be displayed according to the specified routing and descriptor codes. (The descriptor code does not apply to writing the message to the data set.)
- Note 20** JES3 does not issue the message. JES3 sends the message to another subsystem for processing.
- Note 21** This message is a trailer attached to multiple messages previously issued. It has the same routing and descriptor codes as the first line of the conglomerate.
- Note 22** This message is routed to the transaction program (TP) message log.
- Note 23** This message is issued by the device controller. The routing code will vary according to the device controller's task.
- Note 24** This message is routed to the assembly listing.
- Note 25** When this message is issued during IPL, the routing codes are 2 and 10 and the descriptor code is 12. When it is issued after IPL, it has no routing code and the descriptor code is 5.
- Note 26** When this message is issued during NIP processing, the descriptor code is 12. When it is issued after NIP processing, the descriptor code is 4.
- Note 27** The indicated route codes are used only if this message is issued in response to a reply of CKPTDEF during a JES2 checkpoint reconfiguration. This message might be issued to a specific console rather than directed by route code. For further information concerning the routing of JES2 messages issued during a reconfiguration, see *z/OS JES2 Initialization and Tuning Guide*.
- Note 28** These routing and descriptor codes apply only when SMS issues the message. If SMS returns the message to its caller and the caller issues the message, the codes do not apply.
- Note 29** This message is written to the JES3OUT data set.
- Note 30** This message is issued by JES3. The message is written to the \*MODIFY CONFIG (\*F MODIFY) log and/or the issuer of the \*F CONFIG command.
- Note 31** The routing and descriptor codes for this message are dependent on the setting of indicator bits within the S99EOPTS field in the SVC 99 Request Block Extension (S99RBX). See the *z/OS MVS Programming: Authorized Assembler Services Guide*, Processing Messages and Reason Codes from Dynamic Allocation for additional information.
- Note 32** Routing code 2 is only applicable if message IYP050D was issued.
- Note 33** Routing code 2 is only applicable if message IZP050D was issued.
- Note 34** This message is only displayed on the SMCS Console Selection screen, and is not issued via WTO support.
- Note 35** By default, IBM Health Checker for z/OS messages does not use routing codes, but the

- | installation can override the default to use routing codes using either the MODIFY *hzsproc* command or in the HZSPRMxx parmlib member. See *IBM Health Checker for z/OS: User's Guide* for more information.
  - | **Note 36** This message is written to the JESYSMSG data set.
- 

## Descriptor Codes

Descriptor codes describe the significance of messages. They indicate whether the system or a task stops processing, waits until some action is completed, or continues. This code also determines how the system will display and delete the message.

### Association with Message Type Code

Descriptor codes are associated with message type codes, specified by a letter following the message serial number, as follows:

Descriptor Code	Type Code
1	W (wait)
2	A (action) or D (decision)
3	E (eventual action)
4 through 10	I (information)
11	E (critical eventual action)
12 and 13	I (information)

### Valid combinations and restrictions for descriptor codes

Descriptor codes are specified in the DESC parameter of the WTO or WTOR macro. The following restrictions apply when specifying descriptor codes:

- Descriptor codes 1 through 6, 11, and 12 are mutually exclusive. Assign only one of these codes to a message. If you assign two mutually exclusive codes to one message, the system uses the most important code and ignores the other.
- Descriptor codes 7 through 10 and 13 can be assigned in combination with any of the mutually exclusive codes.
- | • Descriptor code 9 can be used only with descriptor code 8.

Under certain conditions, the system uses a descriptor code other than that specified in the macro as follows:

- The system assigns descriptor code 6 if the macro specifies a ROUTCDE parameter, but no DESC parameter.
- The system assigns descriptor code 7 if all of the following are true:
  1. A problem program issued the macro.
  2. The macro omits both DESC and ROUTCDE parameters, or specifies descriptor codes 1 or 2.
  3. The message is not a multiple-line WTO message.
- The system assigns no descriptor code if all of the following are true:
  1. An authorized program issued the macro.
  2. The macro omits both DESC and ROUTCDE parameters.
  3. The message is not a multiple-line WTO message.

**Note:** An authorized program has at least one of these characteristics:

- Authorized by the authorized program facility (APF)
- Runs in supervisor state

- Runs under PSW key 0 through 7

## Message Deletion

With multiple console support (MCS), action messages with descriptor code 1 or 2 issued by problem programs are assigned descriptor code 7; thus, they are automatically deleted from the system at task or address space ending.

- I The system deletes messages issued by any program when that program issues the DOM macro for a message.

The operator can manually remove all messages from a display console screen or can set the console to roll messages off the screen.

## Message Color

On operator consoles with color, the descriptor code determines the color of the message. The use of color is explained in *z/OS MVS System Commands*. Also see the descriptions of the CONSOLxx and MPFLSTxx parmlib members in *z/OS MVS Initialization and Tuning Reference*.

## Descriptor Code Meaning

Programming Interface information	
Code	Meaning
<b>1</b>	<b>System Failure</b> The message indicates an error that disrupts system operations. To continue, the operator must rel IPL the system or restart a major subsystem. This causes the audible alarm to be sounded.
<b>2</b>	<b>Immediate Action Required</b> The message indicates that the operator must perform an action immediately. The message issuer could be in a wait state until the action is performed or the system needs the action as soon as possible to improve performance. The task waits for the operator to complete the action. This causes the audible alarm to be sounded.  <b>Note:</b> When an authorized program issues a message with descriptor code 2, a DOM macro <i>must</i> be issued to delete the message after the requested action is performed.
<b>3</b>	<b>Eventual Action Required</b> The message indicates that the operator must perform an action eventually. The task does not wait for the operator to complete the action. If the task can determine when the operator has performed the action, the task should issue a DOM macro to delete the message when the action is complete.
<b>4</b>	<b>System Status</b> The message indicates the status of a system task or of a hardware unit.
<b>5</b>	<b>Immediate Command Response</b> The message is issued as an immediate response to a system command. The response does not depend on another system action or task.
<b>6</b>	<b>Job Status</b> The message indicates the status of a job or job step.

- 7      **Task-Related**  
The message is issued by an application or system program. Messages with this descriptor code are deleted when the job step that issued them ends.
- 8      **Out-of-Line**  
The message, which is one line of a group of one or more lines, is to be displayed out-of-line. If a message cannot be displayed out-of-line because of the device being used, descriptor code 8 is ignored, and the message is displayed in-line with the other messages.
- 9      **Operator's Request**  
| The message is written in response to an operator's request for information by a DEVSERV, DISPLAY, or MONITOR command.
- 10     **Not defined**  
Descriptor code 10 is not currently in use.
- 11     **Critical Eventual Action Required**  
| The message indicates that the operator must perform an action eventually, and the action is important enough for the message to remain on the display screen until the action is completed. The task does not wait for the operator to complete the action. This causes the audible alarm to be sounded.  
| Avoid using this descriptor code for non-critical messages because the display screen could become filled.  
If the task can determine when the operator has performed the action, the task should issue a DOM macro to delete the message when the action is complete.
- 12     **Important Information**  
The message contains important information that must be displayed at a console, but does not require any action in response.
- 13     **Automation Information**  
Indicates that this message was previously automated.

---

**End of Programming Interface information**

---

14-16    Reserved for future use.

## **Descriptor Codes in this Book**

Descriptor codes appear within the associated message. The descriptor code field can also contain the following special characters.

- /      The message will have different descriptor codes according to the task issuing it. For example, 4/6 means the message can describe system status or job status.
- The message has no descriptor code.
- N/A    A descriptor code is not applicable for the message.

| **Note 1**

- | The descriptor code for an IBM Health Checker for z/OS check exception message might vary, because the installation can override the descriptor code either using the MODIFY hzsproc command or in the HZSPRMxx parmlib member. See *IBM Health Checker for z/OS: User's Guide* for more information. In addition to the descriptor code selected by the installation, one of the following descriptor codes is also included based on the severity of the check:

- High severity checks use a descriptor code of 11.
- Medium severity checks use a descriptor code of 3.
- Low severity checks use a descriptor code of 12.

---

## A Method for Finding Changes to MVS and TSO/E Message Texts

Automation routines are sensitive to changes to message text between releases. You can find changes to message texts in the following ways:

- The Summary of Changes of the related messages book can be helpful when you go from one release to the next.
- Data set SYS1.MSGENU contains data that can help you identify changes to message texts more accurately. This method allows you to find message text changes between your current release and whatever release you choose to migrate to. This method is described below.

### Using SYS1.MSGENU to Find Message Text Changes

IBM supplies a data set containing the text of system messages that are translated. This data set, called SYS1.MSGENU, contains the text of system messages in the form of message skeletons. (For more information, see *z/OS MVS Planning: Operations*.)

Note that this method will not show changes to:

- MVS system messages that are not translated, such as IPL and NIP messages (which are issued before the MVS message service is available)
- Other product messages that are not translated, such as DFSMS/MVS messages, and JES3 messages.
- For JES2 messages, use the appropriate SYS1.SHASMENU data set.

Also, this method works better if the “old” copy of SYS1.SHASMENU has the same level of service as the system from which you are migrating.

You can compare the new data set with the data set on the system from which you are migrating. Depending on how you do the comparison, you can get output like the following.

For new messages, the output might show an I (for Insert) on the left:

```
I - IEA403I      VALUE OF RMAX HAS BEEN CHANGED TO 99
```

For messages whose text has changed, the output might show both an I and a D, indicating that a record in the message file has been replaced:

```
I - IEE162I 46  &NNN. ROLL &A. MESSAGES (DEL=R OR RD)
D - IEE162I 46  &NNN. ROLL &A. MESSAGES (DEL=R, RD)
```

This means that, in message IEE162I, (DEL=R, RD) was replaced by (DEL=R OR RD).

Using this information, you can decide if your automation routines need to be changed.

## Chapter 2. ASB Messages

---

**ASB002I CLASS *class-name* CANNOT BE ADDED.**

**Explanation:** The system cannot add an APPC/MVS transaction scheduler class to the current parmlib configuration because an error occurred while processing an ASCHPMxx parmlib member.

In the message text:

*class-name* The APPC/MVS transaction scheduler class.

**System action:** The system rejects any requests from transaction programs (TP) that run under the APPC/MVS transaction scheduler class.

**Operator response:** Notify the system programmer.

**System programmer response:** Check the lines in the parmlib member for syntax errors. Correct the error(s).

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCHAD

**Routing Code:** 2

**Descriptor Code:** 3

---

**ASB004I CLASS *class-name* DOES NOT EXIST. IT CANNOT BE DELETED.**

**Explanation:** The system cannot delete an APPC/MVS transaction scheduler class because the class was never added to the current parmlib configuration.

In the message text:

*class-name* The APPC/MVS transaction scheduler class.

**System action:** The system continues processing.

**System programmer response:** Check the ASCHPMxx parmlib member for the correct class name. Enter the correct class name.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCHAD

**Routing Code:** 2

**Descriptor Code:** 3

---

**ASB006I DEFAULT CLASS *class-name* DOES NOT EXIST. NO DEFAULT CLASS IS DEFINED.**

**Explanation:** The default APPC/MVS transaction

scheduler class does not exist in the current parmlib configuration.

In the message text:

*class-name* The default APPC/MVS transaction scheduler class.

**System action:** The system does not define a default scheduler class. The system continues processing.

**System programmer response:** Specify a default class on the OPTIONS keyword in the current parmlib configuration.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCHAD

**Routing Code:** 2

**Descriptor Code:** 3

---

**ASB008I DEFAULT CLASS *class-name* WAS DELETED. NO DEFAULT CLASS IS DEFINED.**

**Explanation:** The default APPC/MVS transaction scheduler class was deleted by a SET command. No default class is defined to the system.

In the message text:

*class-name* The default APPC/MVS transaction scheduler class.

**System action:** The system continues processing. The system rejects transaction programs (TP) that do not have a specific class.

**System programmer response:** Specify a default class on the OPTIONS keyword in the current parmlib configuration.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCHAD

**Routing Code:** 2M

**Descriptor Code:** 3

---

**ASB010I THE SUBSYSTEM *subsystem* EXISTS BUT IT IS NOT ACTIVE.**

**Explanation:** When the system tried to start a transaction initiator, the system found that the subsystem specified on the SUBSYS keyword in the current parmlib configuration, but is not currently active. The subsystem must be active in order to start an initiator.

In the message text:

## ASB012I • ASB027I

**subsystem** The subsystem specified on the SUBSYS keyword in the current parmlib configuration.

**System action:** The system stops processing until one of the following occurs:

- The subsystem is activated
- The SUBSYS keyword is changed

**Operator response:** Do one of the following:

- Activate the subsystem.
- Ensure that an automated operation will activate the subsystem.

**System programmer response:** Change the value of the SUBSYS keyword in the current parmlib configuration to the name of an active subsystem.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCHVS

**Routing Code:** 2

**Descriptor Code:** 11

---

### ASB012I THE SUBSYSTEM *subsystem* DOES NOT EXIST.

**Explanation:** The subsystem specified on the SUBSYS keyword in the current parmlib configuration is not defined to the system.

In the message text:

**subsystem** The specified subsystem.

**System action:** The system stops processing until the SUBSYS keyword indicates a valid subsystem.

**Operator response:** Notify the system programmer. After the system programmer corrects the problem, enter a SET command to process the current parmlib configuration.

**System programmer response:** Check the IEFSSNxx parmlib member for a correct subsystem name. Enter a correct subsystem name in the current parmlib configuration.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCHVS

**Routing Code:** 2

**Descriptor Code:** 11

---

### ASB025I INCORRECT CHARACTERS SPECIFIED FOR ASCH PARMLIB MEMBER VALUE.

**Explanation:** On a START ASCH command or a SET ASCH command, the operator specified an incorrect suffix on one or more ASCH parmlib members.

**System action:** The system stops processing the

incorrect ASCH parmlib member(s). The system continues other processing.

**Operator response:** Enter the START ASCH or SET ASCH command again, specifying a valid ASCH parmlib member suffix. Correct suffix values are alphanumeric characters or national characters.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCPX

**Routing Code:** 2

**Descriptor Code:** 5

---

### ASB026I ASCHPMxx IGNORED. MEMBER IS EMPTY.

**Explanation:** The parmlib member specified on a START ASCH or SET ASCH command is empty.

In the message text:

**ASCHPMxx** The empty parmlib member, with the suffix xx.

**System action:** The system stops processing the empty parmlib member. The system processes the next ASCH parmlib member, if one was specified in the current configuration.

**Operator response:** Notify the system programmer. After the system programmer has corrected the problem, enter the SET ASCH command to process the parmlib member.

**System programmer response:** Enter valid data in the ASCH parmlib member.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCPA

**Routing Code:** 2

**Descriptor Code:** 5

---

### ASB027I ASCHPMxx : LINE num1 - num2 IGNORED. UNBALANCED COMMENT DETECTED.

**Explanation:** In an ASCHPMxx parmlib member, the system found one of the following:

- A starting comment delimiter /\*) with no matching ending comment delimiter /\*/
- An ending comment delimiter with no starting comment delimiter

In the message text:

**ASCHPMxx** The parmlib member, with the suffix xx.

**num1** The line number in the ASCHPMxx

	parmlib member where the unbalanced comment began.
num2	The line number in the ASCHPMxx parmlib member where the unbalanced comment ended.

**System action:** The system does not process the statement with the unbalanced comment. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Notify the system programmer. After the system programmer has corrected the problem, enter the SET ASCH command to process the ASCHPMxx parmlib member.

**System programmer response:** Do the following:

- Check the lines in the parmlib member for syntax errors. Correct the error(s).
- Determine if a new parmlib member is necessary to contain only the corrected statement(s).

**Source:** Advanced Program-to-Program Communication (APP/C/MVS)

**Detecting Module:** ASBSCPA

**Routing Code:** 2

**Descriptor Code:** 5

**ASB028I ASCHPMxx : LINE num stmt STATEMENT IGNORED. STATEMENT TYPE NOT RECOGNIZED.**

**Explanation:** The system found an incorrect statement type in an ASCHPMxx parmlib member.

In the message text:

ASCHPMxx	The parmlib member, with the suffix xx.
num	The line number in the parmlib member where the incorrect statement began.
stmt	The name of the incorrect statement.

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Notify the system programmer. After the system programmer corrects the problem, enter the SET ASCH command to process the parmlib member.

**System programmer response:** Do the following:

- Check the lines in the parmlib member for syntax errors. Correct the error(s).
- Determine if a new parmlib member is necessary to contain only the corrected statement(s).

**Source:** Advanced Program-to-Program Communication (APP/C/MVS)

**Detecting Module:** ASBSCPA

**Routing Code:** 2

**Descriptor Code:** 5

**ASB029I ASCHPMxx: LINE num {CLASSADD | CLASSDEL} STATEMENT IGNORED. NO OPERANDS SPECIFIED.**

**Explanation:** In the ASCHPMxx parmlib member, the system found a CLASSADD or CLASSDEL statement that contains no operands.

In the message text:

ASCHPMxx	The parmlib member, with the suffix xx.
num	The line number in the ASCHPMxx parmlib member where the incorrect statement began.
CLASSADD	The system found an error in a CLASSADD statement.
CLASSDEL	The system found an error in a CLASSDEL statement.

**System action:** The system does not process the statement with no operands. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Notify the system programmer. After the system programmer corrects the problem, enter the SET ASCH command to process the parmlib member.

**System programmer response:** Do the following:

- Check the lines in the parmlib member for syntax errors. Correct the error(s).
- Determine if a new parmlib member is necessary to contain only the corrected statement(s).

**Source:** Advanced Program-to-Program Communication (APP/C/MVS)

**Detecting Module:** ASBSCCA

**Routing Code:** 2

**Descriptor Code:** 5

**ASB030I ASCHPMxx : LINE num {CLASSADD | CLASSDEL} STATEMENT IGNORED. NO CLASSNAME KEYWORD SPECIFIED.**

**Explanation:** A statement in the specified parmlib member does not contain a required keyword.

In the message text:

ASCHPMxx	The parmlib member, with the suffix xx.
----------	---

## ASB031I • ASB032I

*num* The line number in the ASCHPMxx parmlib member where the incorrect statement began.

**CLASSADD** The system found an error in a CLASSADD statement.

**CLASSDEL** The system found an error in a CLASSDEL statement.

*keyword* The missing keyword.

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Notify the system programmer. After the system programmer corrects the problem, enter the SET ASCH command to process the parmlib member.

**System programmer response:** Do the following:

- Check the lines in the parmlib member for syntax errors. Correct the error(s).
- Determine if a new parmlib member is necessary to contain only the corrected statement(s).

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCCA

**Routing Code:** 2

**Descriptor Code:** 5

---

**ASB031I ASCHPMxx : LINE num stmt  
STATEMENT IGNORED. DUPLICATE  
KEYWORD keyword SPECIFIED.**

**Explanation:** The system found a statement with a duplicate keyword.

In the message text:

**ASCHPMxx** The parmlib member, with the suffix *xx*.

*num* The line number in the ASCHPMxx parmlib member where the incorrect statement began.

*stmt* The name of the statement in error, which is one of the following:

- CLASSADD
- CLASSDEL
- OPTIONS
- TPDEFAULT

*keyword* The duplicate keyword, which is one of the following:

- CLASSNAME
- DEFAULT
- MAX
- MIN
- MSGLEVEL
- MSGLIMIT
- OUTCLASS

- OUTCLASS
- REGION
- RESPGOAL
- SUBSYS
- TIME

**System action:** The system rejects the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Notify the system programmer. After the system programmer has corrected the problem, enter a SET ASCH command to process the parmlib member.

**System programmer response:** Do the following:

- Check the lines in the parmlib member for syntax errors. Correct the error(s).
- Determine if a new parmlib member is necessary to contain only the corrected statement(s).

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCCA

ASBSCOP

**Routing Code:** 2

**Descriptor Code:** 5

---

**ASB032I ASCHPMxx : LINE num stmt  
STATEMENT IGNORED. VALUE  
SPECIFIED FOR KEYWORD keyword IS  
NOT VALID.**

**Explanation:** The system found a statement with an incorrect keyword value.

In the message text:

**ASCHPMxx** The parmlib member, with the suffix *xx*.

*num* The line number in the ASCHPMxx parmlib member where the bad statement began.

*stmt* The name of the statement in error, which is one of the following:

- CLASSADD
- CLASSDEL
- OPTIONS
- TPDEFAULT

*keyword* The keyword that contains an incorrect value, which is one of the following:

- CLASSNAME
- DEFAULT
- MAX
- MIN
- MSGLEVEL
- MSGLIMIT
- OUTCLASS

- REGION
- RESPGOAL
- SUBSYS
- TIME

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Notify the system programmer. After the system programmer has corrected the problem, enter a SET ASCH command to process the parmlib member.

**System programmer response:** Do the following:

- Check the keyword for syntax errors. Correct the error(s).
- Determine if a new parmlib member is necessary to contain only the corrected statement(s).

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCCA, ASBSCOP

**Routing Code:** 2

**Descriptor Code:** 5

**ASB033I      ASCHPMxx : LINE num stmt  
STATEMENT IGNORED.  
UNRECOGNIZED KEYWORD: keyword.**

**Explanation:** The system found a statement with an unrecognized keyword.

In the message text:

<b>ASCHPMxx</b>	The parmlib member, with the suffix xx.
<i>num</i>	The line number in the ASCHPMxx parmlib member where the incorrect statement began.
<i>stmt</i>	The name of the incorrect statement, which is one of the following: • CLASSADD • CLASSDEL • OPTIONS • TPDEFAULT
<i>keyword</i>	The unrecognized keyword.

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if any exists.

**Operator response:** Notify the system programmer. After the system programmer corrects the problem, enter the SET ASCH command to process the parmlib member.

**System programmer response:** Do the following:

- Check the keyword for syntax errors. Correct the error(s).

- Determine if a new parmlib member is necessary to contain only the corrected statement(s).

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCCA, ASBSCOP

**Routing Code:** 2M

**Descriptor Code:** 5

**ASB034I      ASCHPMxx : LINE num stmt  
STATEMENT IGNORED. MISSING  
RIGHT PARENTHESIS FOR A  
KEYWORD VALUE SPECIFIED IN THE  
STATEMENT.**

**Explanation:** The system found a statement with a keyword value that had no right parenthesis. The keyword was followed by another keyword.

In the message text:

<b>ASCHPMxx</b>	The parmlib member, with the suffix xx.
<i>num</i>	The line number in the ASCHPMxx parmlib member where the incorrect statement began.
<i>stmt</i>	The name of the incorrect statement, which is one of the following: • CLASSADD • CLASSDEL • OPTIONS • TPDEFAULT

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Notify the system programmer. After the system programmer has corrected the problem, enter a SET ASCH command to process the parmlib member.

**System programmer response:** Do the following:

- Check the lines in the parmlib member for unbalanced parentheses. Correct the error(s).
- Determine if a new parmlib member is necessary to contain only the corrected statement(s).

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCCA, ASBSCOP

**Routing Code:** 2

**Descriptor Code:** 5

---

<b>ASB035I</b>	<b>ASCHPMxx : LINE num stmt STATEMENT IGNORED. NO VALUE SPECIFIED FOR KEYWORD keyword.</b>
----------------	--

**Explanation:** The system found one of the following:

- A keyword with an incorrect value, or no left parenthesis.
- A syntax error

In the message text:

<b>ASCHPMxx</b>	The parmlib member, with the suffix xx.
<b>num</b>	The line number in the ASCHPMxx parmlib member where the incorrect statement began.
<b>stmt</b>	The name of the statement containing the incorrect keyword value or no left parenthesis, which is one of the following: <ul style="list-style-type: none"> <li>• CLASSADD</li> <li>• CLASDEL</li> <li>• OPTIONS</li> <li>• TPDEFAULT</li> </ul>
<b>keyword</b>	The incorrect keyword, which is one of the following: <ul style="list-style-type: none"> <li>• CLASSNAME</li> <li>• DEFAULT</li> <li>• MAX</li> <li>• MIN</li> <li>• MSGLEVEL</li> <li>• MSGLIMIT</li> <li>• OUTCLASS</li> <li>• REGION</li> <li>• RESPGOAL</li> <li>• SUBSYS</li> <li>• TIME</li> <li>• WORKQ</li> </ul>

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Notify the system programmer. After the system programmer has corrected the problem, enter a SET ASCH command to process the parmlib member.

**System programmer response:** Do the following:

- Check the lines in the parmlib member for syntax errors. Correct the error(s).
- Determine if a new parmlib member is necessary to contain only the corrected statement(s).

**Source:** Advanced Program-to-Program Communication (APP/MVS)

**Detecting Module:** ASBSCCA, ASBSCOP

**Routing Code:** 2

**Descriptor Code:** 5

---

<b>ASB036I</b>	<b>ASCHPMxx : STARTING LINE num MEMBER IGNORED. stmt STATEMENT TEXT EXCEEDS 4096 CHARACTERS.</b>
----------------	--

**Explanation:** One of the following conditions exists in the ASCHPMxx parmlib member:

- A statement is too long
- A statement contains a syntax error

In the message text:

<b>ASCHPMxx</b>	The parmlib member, with the suffix xx.
<b>num</b>	The line number in the ASCHPMxx parmlib member where the incorrect statement began.
<b>stmt</b>	The name of the incorrect statement, which is one of the following: <ul style="list-style-type: none"> <li>• CLASSADD</li> <li>• CLASDEL</li> <li>• OPTIONS</li> <li>• TPDEFAULT</li> </ul>

**System action:** The system does not process the incorrect member. The system processes the next ASCHxx parmlib member, if one exists.

**Operator response:** Notify the system programmer. After the system programmer has corrected the problem, enter a SET ASCH command to process the parmlib member.

**System programmer response:** Do the following:

- Check the lines in the parmlib member for statements that exceed 4096 characters.
- Determine if a new parmlib member is necessary to contain only the corrected statement(s).

**Source:** Advanced Program-to-Program Communication (APP/MVS)

**Detecting Module:** ASBSCPA

**Routing Code:** 2

**Descriptor Code:** 5

---

<b>ASB038I</b>	<b>ASCHPMxx : stmtrec</b>
----------------	---------------------------

**Explanation:** This message displays the ASCH parmlib member and the statement that the system is processing in that parmlib member.

In the message text:

<b>ASCHPMxx</b>	The parmlib member, with the suffix xx.
<b>stmtrec</b>	The statement record that the system is currently processing.

**System action:** The system continues processing.

**Source:** Advanced Program-to-Program Communication (APP/MVS)

**Detecting Module:** ASBSCPA  
**Routing Code:** 2  
**Descriptor Code:** 5

---

**ASB039I SET ASCH COMMAND IGNORED.  
ASCH NOT ACTIVE.**

**Explanation:** The operator entered the SET ASCH command when ASCH was:

- Not started
- Initializing
- Ending

**System action:** The system rejects the SET ASCH command.

**Operator response:** Enter a DISPLAY ASCH command to check the ASCH component status. Determine when you can enter the SET ASCH command again.

**Source:** Advanced Program-to-Program Communication (APP/C/MVS)

**Detecting Module:** ASBSCPS

**Routing Code:** 2

**Descriptor Code:** 5

---

**ASB040I SYSTEM ERROR ENCOUNTERED IN  
ASCH PARMLIB PROCESSING.**

**Explanation:** The system found unexpected errors when processing the Advanced Program-to-Program Communication scheduler (ASCH) parmlib member(s).

A temporary loss of system storage may have caused this problem.

**System action:** The system writes an SVC dump to the SYS1.DUMPxx data set. The system continues processing. Processing of the parmlib member may be incomplete.

**Operator response:** Enter a DISPLAY ASCH command to check the ASCH configuration status. Determine if you should enter a SET ASCH command to update the current parmlib configuration.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump.

**Source:** Advanced Program-to-Program Communication (APP/C/MVS)

**Detecting Module:** ASBSCPS, ASBSCPX, ASBSCPA, ASBSCAD, ASBSCOP, ASBSCCK

**Routing Code:** 2

**Descriptor Code:** 5

---

**ASB050I ASCH IS RESTARTING. FAILURE CODE  
= failcde**

**Explanation:** The Advanced Program-to-Program Communication scheduler (ASCH) abended while initializing or processing ASCH work.

In the message text:

*failcde* A hex reason code that explains the error, as follows:

<b>Reason Code</b>	<b>Explanation</b>
<b>0000001</b>	The failure occurred during ASCH processing.

**System action:** The system does the following:

1. Ends the APPC/MVS transaction scheduler temporarily
2. Writes an SVC dump, if an abend occurred
3. Tries to restart the APPC/MVS transaction scheduler
4. Issues message ASB052I when the APPC/MVS transaction scheduler returns to active state
5. Does not process work that was in progress when the abend occurred
6. Notifies the requestor of work that was not completed

**Operator response:** After the system issues message ASB052I, enter commands that were not processed, as desired.

**System programmer response:** Identify the problem using the SVC dump and any APPC trace records. Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** Advanced Program-to-Program Communication (APP/C/MVS)

**Detecting Module:** ASBSCSM, ASBSCIN

**Routing Code:** 2

**Descriptor Code:** 4

---

**ASB051I ASCH IS TERMINATING. FAILURE  
CODE = failcde**

**Explanation:** The APPC/MVS transaction scheduler abended while initializing or processing ASCH work.

In the message text:

*failcde* The hex reason code that explains the error, as follows:

<b>Reason Code</b>	<b>Explanation</b>
<b>0000001</b>	Restrictions for allowing a restart were not met. The abend is the second

	non-recoverable error to occur within one hour.
0000002	An internal error occurred while the system was initializing the APPC scheduler.

**System action:** The system does the following:

1. Ends the APPC/MVS transaction scheduler
2. Writes a dump to the SYS1.DUMP data set, if an abend occurred
3. Makes the trace records available in the dump, if a trace was active for APPC
4. Issues message ASB050I after issuing the first abend
5. Does not process the work sent to the APPC/MVS transaction scheduler
6. Issues message ASB053I when the APPC/MVS transaction scheduler ends.

**Operator response:** Enter the START ASCH command to start a new APPC/MVS transaction scheduler. See *z/OS MVS System Commands* for details on starting the APPC/MVS transaction scheduler. If the problem recurs, notify the system programmer.

**System programmer response:** Identify the problem using the system dump and the APPC trace records.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCSM, ASBSCST

**Routing Code:** 2

**Descriptor Code:** 1

---

**ASB052I ASCH IS ACTIVE.**

**Explanation:** The Advanced Program-to-Program Communication scheduler (ASCH) is ready to process work requests.

**System action:** The system continues processing.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCSM

**Routing Code:** 2

**Descriptor Code:** 4

---

**ASB053I ASCH HAS TERMINATED.**

**Explanation:** The APPC/MVS transaction scheduler ended.

**System action:** The APPC/MVS transaction scheduler ends.

**Operator response:** Enter the START ASCH command to start the APPC/MVS transaction scheduler. See *z/OS MVS System Commands* for details on starting the APPC/MVS transaction scheduler.

**System programmer response:** If a CANCEL or FORCE command did not cause the APPC/MVS transaction scheduler to end, look in the SVC dump to determine the problem. Identify the problem using the system dump. If CTRACE was turned on, analyze the component trace records. The reason code issued with message ASB051I may be helpful in determining the error.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCSM

**Routing Code:** 2

**Descriptor Code:** 4

---

**ASB054I ASCH ALREADY STARTED.  
SUBSEQUENT REQUEST WAS  
IGNORED.**

**Explanation:** An attempt was made to START the APPC/MVS transaction scheduler while an ASCH address space was already in place on the system.

**System action:** The system ends the subsequent START request. The system continues processing.

**Operator response:** If you do not want to continue processing in the current ASCH address space, enter a CANCEL or FORCE command to take the address space offline. Then enter a START ASCH command to start a new ASCH address space.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCIN

**Routing Code:** 2

**Descriptor Code:** 4

---

**ASB055I START ASCH SYNTAX IS INCORRECT.  
COMMAND IGNORED.**

**Explanation:** The syntax of the START ASCH command is incorrect.

**System action:** The system does not process the START ASCH command.

**Operator response:** See *z/OS MVS System Commands* for the correct syntax for the START ASCH command. Correct the syntax. Enter the command again.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCIN

**Routing Code:** 2**Descriptor Code:** 5

---

**ASB056I ASCH IS INITIALIZING****Explanation:** The Advanced Program-to-Program Communication (APPC0) scheduler (ASCH) has begun its initialization process.**System action:** The system continues processing.**Source:** Advanced Program-to-Program Communication (APPC/MVS)**Detecting Module:** ASBSCSM**Routing Code:** 2M**Descriptor Code:** 4

---

**ASB057I ASCH UNABLE TO OBTAIN A TRANSACTION FROM APPC.****Explanation:** The APPC/MVS transaction scheduler tried to obtain a transaction from the APPC component. The system could not obtain the transaction because:

- A system error occurred
- The load on the system was too high

**System action:** The system notifies the transaction requestor that the request could not be serviced.**User response:** Retry the conversation.**Source:** Advanced Program-to-Program Communication (APPC/MVS)**Detecting Module:** ASBSCPR**Routing Code:** 10**Descriptor Code:** 4

---

**ASB058I SUB=MSTR NOT SPECIFIED ON START ASCH. COMMAND IGNORED.****Explanation:** The START ASCH command did not specify SUB=MSTR. The SUB=MSTR parameter must be specified.**System action:** The APPC/MVS transaction scheduler is not available.**Operator response:** Enter the START ASCH command again, specifying SUB=MSTR. See *z/OS MVS System Commands* for the correct syntax.**Source:** Advanced Program-to-Program Communication (APPC/MVS)**Detecting Module:** ASBSCIN**Routing Code:** 2**Descriptor Code:** 5

---

**ASB059I ASCH IS TERMINATING DUE TO OPERATOR {CANCEL | FORCE}****Explanation:** The APPC/MVS transaction scheduler is ending because the operator entered a CANCEL or FORCE command.**System action:** The system makes all ASCH address space services unavailable. The system ends all conversations associated with the APPC/MVS transaction scheduler. The idle initiator ends when the system tries to obtain more work from the APPC/MVS transaction scheduler. When the APPC/MVS transaction scheduler ends, the system issues message ASB053I.**Operator response:** To start a new APPC/MVS transaction scheduler, enter a START ASCH command after the system issues message ASB053I. See *z/OS MVS System Commands* for the START ASCH command syntax.**Source:** Advanced Program-to-Program Communication (APPC/MVS)**Detecting Module:** ASBSCRE, ASBSCST**Routing Code:** 2**Descriptor Code:** 1

---

**ASB060I ASCH FAILED TO START CLASS classname INITIATORS.****Explanation:** The APPC/MVS transaction scheduler failed to start initiators for the class *classname*. Possible causes of this error are:

- The ASCHINT procedure is missing from SYS1.PROCLIB
- The ASCHINT procedure contains JCL errors.

**System action:** The system continues processing. No initiators are started until the problem is corrected.**Operator response:** Notify the system programmer. At the request of the system programmer, issue the SET ASCH=xx command to resume attempts to start initiators. If necessary, see *z/OS MVS System Commands* for the SET ASCH command syntax.**System programmer response:** Make sure that the ASCHINT procedure is in SYS1.PROCLIB. If it is, check for any JCL errors and correct them. Then, ask the operator to restart initiators through a SET ASCH=xx operator command, specifying an ASCHPMxx parmlib member that contains one CLASSADD statement for each class that needs to be restarted.**Source:** Advanced Program-to-Program Communication (APPC/MVS)**Detecting Module:** ASBSCT2**Routing Code:** 2**Descriptor Code:** 4

---

**ASB080I MSGLIMIT HAS BEEN EXCEEDED.  
START OF MESSAGE WRAP.**

**Explanation:** The number of messages written to the TP message log by a multi-trans transaction program (TP) exceeds the limit specified in MSGLIMIT field in the current parmlib configuration.

**System action:** The system issues this message to the TP message log. When the number of messages exceeds the value of MSGLIMIT, the messages wrap in the following manner:

- The first message overwritten will immediately follow the messages that were written before the first Get\_Transaction was issued.
- The initial messages will not be overwritten.
- The system writes message ASB080I to the TP message log before the first message where the wrapping begins.

**Source:** Advanced Program-to-Program Communication (APP/C/MVS)

**Detecting Module:** ASBSCMG

**Routing Code:** Note 22

**Descriptor Code:** -

---

**ASB081I MSGLIMIT HAS BEEN EXCEEDED. END  
OF MESSAGE WRAP.**

**Explanation:** The number of messages written to the TP message log by a multi-trans transaction program (TP) exceeds the limit specified in MSGLIMIT in the current parmlib configuration.

**System action:** The system ends processing for the TP. If the messages in the job/message log were wrapping, the system issues this message to the TP message log to mark where the wrapping ends. The system continues other processing.

**Source:** Advanced Program-to-Program Communication (APP/C/MVS)

**Detecting Module:** ASBSCMG

**Routing Code:** Note 22

**Descriptor Code:** -

---

**ASB082I MSGLIMIT HAS BEEN EXCEEDED.  
MESSAGE PROCESSING  
TERMINATED.**

**Explanation:** The number of messages written to the job/message log exceeds the limit specified in the MSGLIMIT field of the current parmlib configuration.

**System action:** For a transaction program (TP) with a schedule type of standard, the system issues this message to the job/message log and stops message processing.

For a multi-trans TP, if the MSGLIMIT is reached before

the first Get\_Transaction, the messages will not wrap. The system writes this message to the job/message log and stops message processing.

**User response:** After the system programmer increases the value of MSGLIMIT, submit the TP again.

**System programmer response:** Increase the value of MSGLIMIT in the current parmlib configuration.

**Source:** Advanced Program-to-Program Communication (APP/C/MVS)

**Detecting Module:** ASBSCMG

**Routing Code:** Note 22

**Descriptor Code:** -

---

**ASB083I JOBLOG PROCESSING ENDED DUE  
TO ALLOCATION FAILURE. REASON  
CODE = reason-code, DSN = dsname**

**Explanation:** The system encountered an error while trying to allocate a dataset for the TP message log. The reason code explains the error.

In the message text:

<i>reason-code</i>	The hexadecimal reason code explaining the error is one of the following:
0	Internal error.
Non-zero	The SVC 99 decimal error code from the request block field. S99ERROR. See <i>z/OS MVS Programming: Authorized Assembler Services Guide</i> for an explanation of the error code.

**DSN = *dsname*** The name of the dataset that the system could not allocate.

**System action:** Processing continues, but APPC does not write messages to the TP Message log.

**Operator response:** Notify the system programmer.

**System programmer response:** Make sure that the MESSAGE\_DATA\_SET keyword in the TP profile is correct. Try using a different dataset name for the TP message log if necessary.

If the error persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** Advanced Program-to-Program Communication (APP/C/MVS)

**Detecting Module:** ASBSCAL

**Routing Code:** Note 22

**Descriptor Code:** -

---

**ASB084I    JOBLOG PROCESSING ENDED DUE  
TO OPEN FAILURE. DSN = *dsname***

**Explanation:** The system encountered an error while trying to open a dataset for the TP message log.

**System action:** Processing continues, but APPC does not write messages to the TP Message log. The system issues abend X'13' and message IEC143I prior to this message.

**Operator response:** Notify the system programmer.

**System programmer response:** Follow the system programmer response for abend code X'13' and message IEC143I.

Make sure that the MESSAGE\_DATA\_SET keyword in the TP profile is correct. Try using a different dataset name for the TP message log if necessary.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ASBSCWL

**Routing Code:** Note 22

**Descriptor Code:** -

---

**ASB101I    *hh.mm.ss* ASCH DISPLAY [*id*]**

*text*

**Explanation:** Where *text* is:

```
CLASSES ACTIVE TRANS QUEUED TRANS IDLE INITS TOTAL INITS
cccc   aaaaaa    qqqqqq    iiiii    ttttt
[REGION TIME      MSGLEVEL   OUTCLASS  SUBSYS
region  mmmm,ss   s,m       oc        subsys]
[CLASS=class STATUS=status   ACTIVE TRANS=aaaaaa MIN=minim
             RESPGOAL=rrrrrrrr  QUEUED TRANS=qqqqqq MAX=maxim
             DEFAULT={YES|NO}  IDLE INITS=iiiii
[LTPN=tppname]X'h'h'ccc
               STATUS=status   WUID=workid   ASID=asid
               TPST=tp_sched_type USERID=userid QT=nnnnnnnnn
               JOBNAME=jobname]]]
```

This message appears when the operator enters a DISPLAY ASCH command.

The variables in the first line are:

*hh.mm.ss*

Hour, minute, and second (or **00.00.00** if the time of day (TOD) clock is not working).

*id* A 3-digit decimal identifier, used with the CONTROL C,D command to cancel status displays being written on typewriter or printer consoles or being displayed inline (that is, not in a display area) on a display console. This identifier does not appear when the display is presented in a display area on a display console.

If any keyword filters were entered on the command, the numbers reflect only data that meets the specified criteria.

### CLASSES

*cccc*

The number of Advanced Program-to-Program Communication (APPC/MVS) transaction scheduler classes currently defined. This count includes both ACTIVE and TERMINATING classes.

TERMINATING means the class has been removed from the system with a SET command, but the system allows the transaction programs already running or queued to complete.

### ACTIVE TRANS

*aaaaa*

The total number of active transaction programs. The following TPs are considered active and are included in the count:

- Multi-trans TPs that are waiting for more work
- TPs that are “in transition” (the system is still preparing the transaction initiator and has not yet invoked the TP); JOBNAME=\*NONE\* is displayed in the message text for TPs that are in transition.

### QUEUED TRANS

*qqqqq*

The total number of queued transaction program attach requests.

### IDLE INITS

*iiiii*

The number of transaction initiators that are not currently running a transaction program. This count includes all idle initiators for each class, as well as idle initiators that are not assigned to any class. These initiators are available to be assigned to any class that may need them.

### TOTAL INITS

*ttttt*

The total number of transaction initiators that are managed by the APPC/MVS transaction scheduler. This count includes both the active initiators (one for each ACTIVE TRANS), and the IDLE INITS.

The SUBSYS and TPDEFAULT information, as specified in parmlib, is:

### REGION

*region*

The TPDEFAULT region size. *region* has a value range of one through 9999 kilobytes, and one through 2047 megabytes.

### TIME

*mmmm,ss*

The TPDEFAULT time limit. *mmmm,ss* is the time limit in minutes (from one to 1440) and in seconds (from one to 59).

### MSGLEVEL

**s,m**

The TPDEFAULT message level. *s* has a possible value of 0, 1, or 2. *m* has a possible value of 0 or 1.

**OUTCLASS**

*oc* The TPDEFAULT output class. *oc* has a possible value of A through Z and 0 through 9.

**SUBSYS***subsys*

The name of the JES subsystem that all APPC/MVS transaction initiators are assigned. *subsys* is a 1- to 4-character string.

If the command includes the LIST parameter, lines six through eight (which describe an APPC/MVS transaction scheduler class) appear. They are repeated for each APPC/MVS transaction scheduler class, or for each APPC/MVS transaction scheduler class selected by the optional keyword parameters. The information given for each APPC/MVS scheduler class is:

**CLASS=class**

The name of the APPC/MVS transaction scheduler class. *class* is a string eight characters long or less.

**STATUS=status**

Status of the CLASS. Possible values of *status* are:

- **ACTIVE**  
The APPC/MVS transaction scheduler class is active.
- **TERMINATING**  
The APPC/MVS transaction scheduler class is ending.

**ACTIVE TRANS=aaaaaa**

The number of active transaction programs in this class. The following TPs are considered active and are included in the count:

- Multi-trans TPs that are waiting for more work
- TPs that are “in transition” (the system is still preparing the transaction initiator and has not yet invoked the TP); JOBNAME=“NONE” is displayed in the message text for TPs that are in transition.

Each of these active transaction programs is running in an active transaction initiator. *aaaaaa* is a decimal number with a maximum value of 99999.

**MIN=minim**

The minimum number of initiators as defined in parmlib. *minim* is a decimal number with a maximum value of 99999.

**RESPGOAL=rrrrrrr**

The RESPGOAL specified in parmlib for transactions running in this APPC/MVS transaction scheduler class. *nnnnnnnn* has one of these formats:

- *r.rrrrrr*

When time is less than 10 seconds.

- *rrrr.rrr*

When time is at least 10 seconds and less than 10000 seconds.

- *rrrrrrrr*

When time is at least 10000 seconds and less than or equal to 31536000 seconds (1 year).

**QUEUED TRANS=qqqqq**

The number of queued transactions attach requests for this APPC/MVS transaction scheduler class. *qqqqq* is a decimal number with a maximum value of 99999.

**MAX=maxim**

The maximum number of initiators defined in parmlib. *maxim* is a decimal number with a maximum value of 99999.

**DEFAULT={YESNO}**

**YES** if the APPC/MVS transaction scheduler class is the default class. **NO** if the APPC/MVS transaction scheduler class is not the default class. The default class is the class designated to be used by any transaction program that does not contain a class name in the transaction program profile.

**IDLE INITS=iiiii**

The number of transaction initiators that are currently assigned to this class but are not running transaction programs.

If the DISPLAY command includes the ALL parameter, each APPC/MVS scheduler class description may be followed by several occurrences of lines nine through 12. Lines nine through 12 describe each active transaction program and each queued transaction program attach request for the preceding class. Lines 9 through 12 might only be displayed for transaction programs and transaction program attach requests that meet criteria specified on optional parameters. The variables in lines nine through 12 are:

**LTPN=tpnameIX'hh'ccc**

The local TP name or the SNA service TP name:

*tpname* The local TP name. *tpname* is a string 1 to 64 characters long.

**X'hh'ccc**

The SNA service TP name:

*hh* The first character of the SNA service TP name, in hexadecimal. This character is non-displayable.

*ccc* A character string, with a maximum length of 3.

**STATUS=status**

Status of the transaction program or the transaction program attach request. Possible values for *status* are:

- **QUEUED**

The transaction program attach request is queued.

- **ACTIVE**

The transaction program is active.

- **ACTIVE(W)**

The transaction program is a multi-trans transaction program that is waiting for more work.

**WUID=workid**

Work unit identifier. For APPC/MVS transactions running in transaction initiators, this has the format Axxxxxx, where xxxxxxx is a numeric character string.

**ASID=asid**

The address space identifier (ASID) of the transaction initiator. When displaying a queued transaction, this will be the ASID of the APPC/MVS of the APPC/MVS transaction scheduler. *asid* is a hexadecimal value with a maximum length of four characters.

**TPST=tp\_sched\_type**

The transaction program schedule type for this transaction program. *tp\_sched\_type* has possible values of **STANDARD** or **MULTITRANS**.

**USERID=userid**

The userid of the transaction program or transaction program attach request. This may have one of the following values:

- **\*NONE\***

if the conversation is a SECURITY=NONE conversation.

- The generic userid defined in the TP profile if the transaction program is a multi-trans transaction program which is waiting for more work (STATUS=ACTIVE(W)), or is running under the generic shell environment (during initialization or ending of the multi-trans TP).

- The userid of the user who issued the transaction request

**QT=nnnnnnnn**

The queue time for a queued transaction program attach request. *nnnnnnnn* has one of these formats, where *ttt* is milliseconds, *sss* or *ss* is seconds, *mm* is minutes, and *hh* or *hhhh* is hours:

- *sss.tts*

when time is less than 1000 seconds.

- *hh.mm.ss*

when time is at least 1000 seconds, but less than 100 hours.

- *hhhh.mm*

when time is at least 100 hours.

- \*\*\*\*\*

when time exceeds 99999 hours.

- **NOTAVAIL**

when TOD clock is not working.

- **\*NONE\***

for an active transaction or transaction program.

**JOBNAME=jobname**

The job name of an active transaction program. *jobname* is a string with a maximum length of eight characters. For a queued transaction program attach request, this value is **\*NONE\***. For an active TP that is "in transition" (the system is still preparing the transaction initiator and has not yet invoked the TP), this value is **\*NONE\***.

**System action:** The system continues processing.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5

**ASB105I DISPLAY ASCH SYNTAX ERROR.  
UNEXPECTED END OF COMMAND:  
error**

**Explanation:** The system was expecting more operands on the DISPLAY ASCH command, but the system ended the command prematurely because a blank was encountered.

In the message text:

*error* A 20-character string preceding the unexpected end of the command.

**System action:** The system rejects the command.

**Operator response:** Reenter the command. Make sure there are no blanks embedded in the command. The system interprets a blank as the end of command.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ATBCODI

**Routing Code:** 2

**Descriptor Code:** 5

**ASB106I DISPLAY ASCH SYNTAX ERROR.  
INVALID PARAMETER: error**

**Explanation:** In the DISPLAY ASCH command, a parameter is not valid.

In the message text:

*error* A 20-character string starting with the parameter in error.

**System action:** The system rejects the command.

## ASB107I • ASB112I

**Operator response:** Reenter the command correctly.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ATBCODI

**Routing Code:** 2

**Descriptor Code:** 5

---

**ASB107I DISPLAY ASCH SYNTAX ERROR.  
INVALID DELIMITER AFTER  
PARAMETER: *error***

**Explanation:** The system found an incorrect delimiter in the DISPLAY ASCH command. For the DISPLAY ASCH command, delimiters are commas and equal signs.

In the message text:

*error* A 20-character string starting with the parameter preceding the incorrect delimiter.

**System action:** The system rejects the command.

**Operator response:** Reenter the command correctly.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ATBCODI

**Routing Code:** 2

**Descriptor Code:** 5

---

**ASB108I DISPLAY ASCH SYNTAX ERROR.  
DUPLICATE KEYWORD PARAMETER:  
*error***

**Explanation:** In the DISPLAY ASCH command, a keyword parameter was entered more than once, which is not allowed.

In the message text:

*error* A 20-character string starting with the second occurrence of the duplicate keyword parameter.

**System action:** The system rejects the command.

**Operator response:** Reenter the command correctly.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ATBCODI

**Routing Code:** 2

**Descriptor Code:** 5

---

**ASB109I DISPLAY ASCH SYNTAX ERROR.  
INVALID KEYWORD VALUE: *error***

**Explanation:** In the DISPLAY ASCH command, a keyword value was incorrectly specified.

In the message text:

*error* A 20 character string starting with the keyword that has the incorrect value.

**System action:** The system rejects the command.

**Operator response:** Reenter the command correctly.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ATBCODI

**Routing Code:** 2

**Descriptor Code:** 5

---

**ASB110I DISPLAY ASCH UNAVAILABLE. ASCH  
IS NOT ACTIVE.**

**Explanation:** The APPC/MVS transaction scheduler is not active.

**System action:** The system continues processing.

**Operator response:** Enter the START ASCH command to initialize the APPC/MVS transaction scheduler, if necessary.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5M

---

**ASB111I DISPLAY ASCH UNAVAILABLE. ASCH  
IS STARTING.**

**Explanation:** The APPC/MVS transaction scheduler is starting because either an operator entered a START ASCH command or the system performed an internal restart of the APPC scheduler. APPC scheduling services will be available soon.

**System action:** The system continues processing.

**Operator response:** Try the command after the ASCH address space initialization completes, as indicated by message ASB052I.

**Source:** Advanced Program-to-Program Communication (APPC/MVS)

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5

---

**ASB112I DISPLAY ASCH UNAVAILABLE. ASCH  
IS TERMINATING AND WILL  
AUTOMATICALLY RESTART.**

**Explanation:** The APPC/MVS transaction scheduler is ending and will automatically begin reinitializing because

of an internal error in the APPC/MVS scheduler.  
APPC/MVS scheduling services will be available soon.

**System action:** The system continues processing.

**Operator response:** Try to enter the command after  
the ASCH address space initialization completes, as  
indicated by message ASB052I.

**Source:** Advanced Program-to-Program  
Communication (APPC/MVS)

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5

---

**ASB113I DISPLAY ASCH UNAVAILABLE. ASCH  
IS TERMINATING.**

**Explanation:** The APPC/MVS transaction scheduler is  
ending because either an operator entered a CANCEL  
or FORCE command, or the system detected an  
internal error in the ASCH address space.

**System action:** The system continues processing.

**Operator response:** Wait for the ASCH address  
space to end, as indicated by message ASB053I. Then,  
if you wish to restart the ASCH address space, enter a  
START ASCH command.

**Source:** Advanced Program-to-Program  
Communication (APPC/MVS)

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5



## Chapter 3. ATB Messages

### Note

This section does not contain explanations for the following types of messages:

- ASB7xxxxI messages - Error log information messages that the APPC transaction scheduler or an alternate scheduler returns to an APPC transaction program (TP).
- ATB6xxxxI messages - Error messages that the application program interface (API) trace facility returns to the issuer of an ATBTRACE request, or writes to the trace data set.
- ATB7xxxxI messages - Error log information messages that the Error\_Extract service returns to an APPC TP.
- ATB8xxxxI messages - Error messages that the Error\_Extract service returns to an APPC TP.

See *z/OS MVS Programming: Writing Transaction Programs for APPC/MVS* for descriptions of those types of messages.

---

### ATB001I APPC IS INITIALIZING.

**Explanation:** Advanced Program-to-Program Communication (APPC) has begun its initialization process.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBINSM

**Routing Code:** 2

**Descriptor Code:** 5

---

### ATB002I APPC HAS TERMINATED.

**Explanation:** Advanced Program-to-Program Communication (APPC) has ended.

**System action:** APPC services are unavailable. The system issued message ATB006I, ATB012I, or ATB010I prior to this one indicating why APPC was ending. The system may issue an SVC dump.

**Operator response:** Enter the START APPC command to start the APPC address space again. See *z/OS MVS System Commands* for more information.

**System programmer response:** If the system previously issued message ATB0006I or ATB012I indicating that APPC ended because of an unrecoverable error, see the system programmer response for the preceding message.

**Source:** APPC/MVS

**Detecting Module:** ATBINSM

**Routing Code:** 2

**Descriptor Code:** 4

---

### ATB003I START APPC SYNTAX IS INCORRECT. COMMAND IGNORED.

**Explanation:** The value assigned to the APPC keyword on the START APPC command did not have the correct syntax.

**System action:** The system rejects the START command.

**Operator response:** Correct the syntax and enter the START command again. See *z/OS MVS System Commands* for more information.

**Source:** APPC/MVS

**Detecting Module:** ATBINIT

**Routing Code:** 2

**Descriptor Code:** 5

---

### ATB004I APPC ALREADY STARTED. SUBSEQUENT REQUEST WAS IGNORED.

**Explanation:** An attempt was made to start Advanced Program-to-Program Communication (APPC) while an APPC address space was already active.

**System action:** The system rejects the subsequent START command. The APPC address space already active continues processing.

**Operator response:** If you do not want the existing APPC address space, cancel it with the CANCEL command. See *z/OS MVS System Commands* for more information.

Once APPC has ended (indicated by message ATB002I), a new APPC address space can be started using the START APPC command.

**Source:** APPC/MVS

**Detecting Module:** ATBINIT

**Routing Code:** 2

**Descriptor Code:** 5

## ATB005I • ATB008E

---

<b>ATB005I</b>	<b>APPC IS RESTARTING. FAILURE CODE =</b> <i>reason-code</i>
----------------	---

**Explanation:** Advanced Program-to-Program Communication (APPC) abnormally ended while initializing or while processing APPC work. The failure required the APPC address space to end, but APPC will attempt to restart itself. An SVC dump was produced at the time of the abend, and records are available if a trace was active for APPC.

In the message text, *reason-code* is one of the following:

<b>Reason Code (hex)</b>	<b>Explanation</b>
--------------------------	--------------------

<b>0004-000C</b>	Internal error.
------------------	-----------------

**System action:** APPC services are temporarily unavailable. The system issues message ATB007I when APPC becomes active again. The system rejects any work that has not completed and notifies the requestor (for example, the system rejects SET commands that were not processed before the abend, and notifies the issuing operator). Additionally, if the operator had started a trace on APPC before the abend, the trace will not be active following the restart. Excluding the commands that were rejected and system trace activity, APPC will restart with the same environment as existed before the abend.

**Operator response:** After APPC becomes active (indicated by message ATB007I), reenter any commands that were rejected, if you still want the system to process them. If component trace was active before APPC abnormally ended, it will no longer be active following restart. See *z/OS Problem Management* for information about restarting component trace.

**System programmer response:** Identify the problem, using the system dump and the APPC trace records. APPC might have abnormally ended because of the frequency of abends (two abends within one hour). If so, an SVC dump was taken for each abend. This message was issued following the first abend. The abends might be unrelated.

Contact the IBM support center. Provide the SVC dump and the reason code issued by this message.

**Source:** APPC/MVS

**Routing Code:** 2

**Descriptor Code:** 4

---

<b>ATB006I</b>	<b>APPC IS TERMINATING. RESTART CRITERIA NOT MET. FAILURE CODE =</b> <i>return-code</i>
----------------	--

**Explanation:** Advanced Program-to-Program Communication (APPC) abnormally ended while initializing or while processing APPC work. APPC will not attempt to restart itself.

In the message text:

<b>Reason Code (hex)</b>	<b>Explanation</b>
--------------------------	--------------------

<b>0001-000C</b>	Internal error.
------------------	-----------------

**System action:** APPC services are unavailable. The system rejects all incoming APPC work. Work already running on the system completes or ends. When APPC has ended, normally or abnormally, the system issues message ATB002I. The system writes an SVC dump.

**Operator response:** Do not send any new work to APPC. To start a new APPC address space, do the following:

- Wait until the system issues message ATB002I and then enter the START APPC command.
- If the system does not issue message ATB002I, APPC has hung in the process of ending. Try entering the FORCE command.
- If the system still does not issue message ATB002I after you enter the FORCE command, the only way to start APPC is to reIPL the system.

**System programmer response:** Identify the problem, using the SVC dump and the APPC component trace records. APPC might have abnormally ended because of the frequency of abends (two abends within one hour). If so, an SVC dump was taken for each abend. The system issues message ATB005I following the first abend. The abends might be unrelated.

If the problem persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump and the reason code issued by this message.

**Source:** APPC/MVS

**Routing Code:** 2

**Descriptor Code:** 12

---

<b>ATB007I</b>	<b>APPC IS ACTIVE.</b>
----------------	------------------------

**Explanation:** Advanced Program-to-Program Communication (APPC) is ready to process work.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBINSM

**Routing Code:** 2

**Descriptor Code:** 4

---

<b>ATB008E</b>	<b>APPC SYSTEM INITIALIZATION FAILED</b>
----------------	--

**Explanation:** A failure occurred during initialization of Advanced Program-to-Program Communication (APPC) resources. The problem could be due to an APPC/cross-system coupling services (XCF) group error.

**System action:** System initialization continues without APPC resources established. APPC will not perform

correctly if started. The system issues an SVC dump.

**Operator response:** Do not enter the START APPC command. APPC will not perform correctly if it is started. Notify the system programmer. When the system programmer has fixed the problem, reIPL the system.

**System programmer response:** XCF is a prerequisite for APPC, so make sure that the APPC/XCF group is correctly established. See *z/OS MVS Setting Up a Sysplex* for information on XCF groups.

If the APPC/XCF group was correct when the system issued this message, this is an internal error. Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump.

**Source:** APPC/MVS

**Detecting Module:** ATBINSY

**Routing Code:** 2

**Descriptor Code:** 1

#### ATB009I SUB=MSTR NOT SPECIFIED ON START APPC. COMMAND IGNORED.

**Explanation:** The START APPC command did not have SUB=MSTR specified. Both the keyword and the value are mandatory. Advanced Program-to-Program Communication (APPC) will not initialize without having SUB=MSTR specified.

**System action:** APPC services are unavailable.

**Operator response:** Reenter the START APPC command with SUB=MSTR specified. For information about starting APPC, see *z/OS MVS System Commands*.

**Source:** APPC/MVS

**Detecting Module:** ATBINIT

**Routing Code:** 2

**Descriptor Code:** 5

#### ATB010I APPC IS TERMINATING DUE TO OPERATOR CANCEL

**Explanation:** The operator entered a CANCEL command to end APPC.

**System action:** APPC services are unavailable. The system deallocates all active conversations. When APPC ends, the system will issue message ATB002I.

**Operator response:** Do not send any new work to APPC. If you want to bring up a new APPC address space, wait until the system issues message ATB002I. Then enter the START APPC command. See *z/OS MVS System Commands* for more information.

**Source:** APPC/MVS

**Detecting Module:** ATBINSM

ATBINIT

**Routing Code:** 2

**Descriptor Code:** 5

#### ATB011I APPC NOT STARTED DUE TO INITIALIZATION FAILURE

**Explanation:** The Advanced Program-to-Program Communication (APPC) job step task failed before the initialization of APPC global resources. The failure may be a result of a system service error or of an error in the APPC job step task.

**System action:** APPC services are unavailable. The system writes an SVC dump.

**Operator response:** Do not send any work to APPC. Notify the system programmer.

**System programmer response:** If APPC abnormally ended because of a critical error after the APPC address space ended, use the SVC dump to identify the problem. If the problem persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM support center. Provide the SVC dump.

**Source:** APPC/MVS

**Detecting Module:** ATBINIT

**Routing Code:** 2

**Descriptor Code:** 12

#### ATB012I APPC IS TERMINATING DUE TO OPERATOR FORCE OR DUE TO CRITICAL ERROR

**Explanation:** Advanced Program-to-Program Communication (APPC) is ending because either:

- An operator entered a FORCE APPC command.
- An internal error occurred.

**System action:** APPC services are unavailable. The system deallocates all active conversations. The system issues message ATB002I when APPC ends and may issue an SVC dump.

**Operator response:** Do not send any new work to APPC. If you would like to bring up a new APPC address space, wait until the system issues message ATB002I. Then enter the START APPC command. See *z/OS MVS System Commands* for more information.

**System programmer response:** If APPC did not end because of the FORCE command, identify the problem using the SVC dump. If the problem persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM support center. Provide the SVC dump.

**Source:** APPC/MVS

## ATB013E • ATB015I

**Detecting Module:** ATBINSM

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB013E SYNTAX ERROR IN APPC  
INITIALIZATION INPUT PARAMETERS.  
START APPC COMMAND IGNORED.**

**Explanation:** The system was unable to initialize Advanced Program-to-Program Communication (APPC) because of a syntax error in one of the following places:

- The APPC keyword specified in the START APPC command
- The subparameters specified in the PARM parameter of the EXEC statement in the APPC member of SYS1.PROCLIB

**System action:** The system continues processing without APPC.

**Operator response:** Check the syntax of the APPC keyword value specified in the START APPC command. The value should be one of the following:

- A single two-character parmlib suffix
- A list of parmlib suffixes separated by commas and optionally ended by an L. You must enclose the list in parentheses.

See *z/OS MVS System Commands* for the syntax of the START APPC command.

**System programmer response:** In the APPC member of SYS1.PROCLIB, check the syntax of the subparameters specified in the PARM parameter of the EXEC statement that invokes the APPC initialization routine.

The syntax must follow these rules:

- The required APPC subparameter must be a symbolic parameter corresponding to the one in the PROC statement. For example, if the parameter in the PROC statement is APPC=00, then the APPC subparameter should be APPC=&APPC.
- The optional BUFSTOR subparameter must be a 1- to 4-digit numeric value. Examples are BUFSTOR=1024 or BUFSTOR=88.
- The optional CONVBUFF subparameter must be a 1- to 7-digit numeric value. Examples are CONVBUFF=1000 or the maximum value of CONVBUFF=2097152.
- If you specify the APPC, BUFSTOR, and CONVBUFF subparameters (or any two of those three subparameters), you can specify them in any order, but you must separate each with a comma.
- You cannot specify the APPC, BUFSTOR, or CONVBUFF parameter more than once.

For more information about the APPC initialization subparameters, see the section on improving

performance through system changes in *z/OS MVS Planning: APPC/MVS Management*.

**Source:** APPC/MVS

**Detecting Module:** ATBINPR

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB014I THE BUFFER STORAGE LIMIT HAS  
BEEN SET TO *number* MEGABYTES**

**Explanation:** The system issues this message whenever Advanced Program-to-Program Communication (APPC) is started to display the storage limit for the transaction program (TP) send/receive buffer. The storage limit is the maximum amount of storage defined for the TP send/receive buffer.

You can define the storage limit for the TP send/receive buffer on the BUFSTOR subparameter of the PARM parameter of the EXEC statement in the APPC member of SYS1.PROCLIB. If you specify BUFSTOR=0, the system uses 2048 megabytes for the storage limit for the TP send/receive buffers. 2048 megabytes is the maximum storage available in an address space. If you don't specify a value on BUFSTOR, the system uses the default, which is approximately one third of the auxiliary storage that was free when APPC was started.

For recommendations about how to define the storage limit for the TP send/receive buffers, see *z/OS MVS Planning: APPC/MVS Management*.

**In the message text:**

*number* The number of megabytes defined for the maximum amount of storage allowed for TP send/receive buffers (in decimal).

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBVSIT

**Routing Code:** Hardcopy only

**Descriptor Code:** 4

---

**ATB015I APPC IS STARTING AFTER A FAILED  
RESTART. SPECIFIED PARMLIB  
MEMBER(S) ARE IGNORED.**

**Explanation:** Advanced Program-to-Program Communication (APPC) is starting after an attempt to internally restart failed. Message ATB005I was issued prior to the issuance of this message to record that internal restart processing was being initiated. APPC will restart with the same environment that existed prior to the internal restart attempt. Any specified APPC parmlib members will be ignored. If the installation desires to change the APPC configuration to something other than what existed prior to the failed internal restart, APPC must be canceled and started again.

**System action:** APPC initialization processing continues to restore the logical unit configuration that existed prior to the failed internal restart. The system issues message ATB007I when APPC becomes active again.

**System programmer response:** Identify the problem that prevented APPC from internally restarting successfully. The reason for the failure may have been recorded by a symptom record written to the logrec data set or a message issued to the system log data set. Keep the symptom record or system log information for future reference as it may be needed for problem determination.

**Source:** APPC/MVS

**Detecting Module:** ATBINIT

**Routing Code:** 2

**Descriptor Code:** 4

**ATB016I THE AMOUNT OF BUFFER STORAGE AVAILABLE TO ONE CONVERSATION IS *number* KILOBYTES.**

**Explanation:** Advanced Program-to-Program Communication (APPC) is started with the indicated amount of buffer space available to any one conversation. This message is issued to hardcopy only.

You can define the buffer space amount for a conversation on the CONVBUFF subparameter of the PARM parameter of the EXEC statement in the APPC member of SYS1.PROCLIB. The CONVBUFF value is a 1- to 7-digit number indicating, in kilobytes, the amount of buffer storage available to one conversation.

- If you specify a value between 1 and 39 on the CONVBUFF parameter, the system uses a value of 40 (because 40 kilobytes is the minimum buffer storage requirement per conversation).
- If you specify a value that is not a multiple of four kilobytes (decimal), the system rounds the value of CONVBUFF up to the next highest multiple of four. For example, if you specify CONVBUFF=1023, the system makes 1024 kilobytes of buffer storage available to one conversation.
- If you specify a value that is greater than the total amount of buffer storage (which is specified on the BUFSTOR subparameter of the START APPC command), the system issues message ATB017I to the console, and allows a single conversation to have access to all of the APPC buffers.

The maximum possible value is CONVBUFF=2097152. If you do not specify a value for CONVBUFF, or if you specify a value of zero, the system uses a default of 1000 kilobytes.

In the message text:

*number* The amount of buffer space, in kilobytes, that

is available to any one conversation. The number is displayed in decimal.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBVSIT

**Routing Code:** 2

**Descriptor Code:** 4

**ATB017I CONVBUFF PARAMETER VALUE EXCEEDS BUFFER STORAGE LIMIT. DEFAULTING TO BUFFER STORAGE LIMIT.**

**Explanation:** Advanced Program-to-Program Communication (APPC) was started. The value specified on the CONVBUFF parameter on the START APPC command is greater than the total amount of buffer storage available to APPC (which is either specified on the BUFSTOR parameter, or calculated by APPC). The amount of storage that each conversation is allowed is set to the total amount of buffer storage, which disables conversation level pacing.

**System action:** The system continues processing.

**Operator response:** No action is necessary if you do not want to enable conversation level pacing, which controls the amount of buffer space that any one conversation can obtain, so one conversation cannot obtain so much storage that it creates a shortage for other conversations. If you do want to enable conversation level pacing, see the section on "Improving Performance through System Changes" in *z/OS MVS Planning: APPC/MVS Management* for information about how to specify a value on the CONVBUFF parameter in the APPC member of SYS1.PROCLIB.

**Source:** APPC/MVS

**Detecting Module:** ATBVSIT

**Routing Code:** 2

**Descriptor Code:** 4

**ATB018E CRITICAL APPC/MVS ERROR. APPC SHOULD BE CANCELLED AND RESTARTED TO RESUME NORMAL INCOMING APPC WORK.**

**Explanation:** APPC/MVS has encountered a number of critical errors. As a result, processing of new inbound FMH-5 attach requests is severely hampered or completely disabled.

**System action:** APPC/MVS processing of new inbound FMH-5 attach requests is severely hampered or totally disabled. This message will likely be accompanied by ATB500E messages and APPC SVC dumps.

**Operator response:** Contact the system programmer.

## ATB019I • ATB020E

At the request of the system programmer, cancel and restart the APPC address space.

**System programmer response:** Evaluate the current APPC/MVS workload running. If critical transaction programs are currently running, wait until they complete. Then, cancel the APPC address space and restart APPC again. Since this problem has resulted from a severe APPC/MVS internal error, search the problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center with the dump that was taken when the error occurred.

**Source:** APPC/MVS

**Detecting Module:** ATBFMFP

**Routing Code:** 2

**Descriptor Code:** 7,11

---

**ATB019I THE APPC ACTIVE CONVERSATION THRESHOLD FOR ONE ADDRESS SPACE IS *number***

**Explanation:** Advanced Program-to-Program Communication (APPC) is started with the APPC active conversation threshold indicated for one address space. This message is issued to hardcopy only.

For each APPC active conversation on the system, APPC reserves a certain amount of system storage. A runaway transaction program, which creates many conversations but never deallocates them, could potentially exhaust the fixed amount of system storage that APPC has obtained. To inform the installation of such a program and optionally to prevent any conversation from being started in the affected address space, APPC allows the installation to specify a threshold that will cause notification of such a problem.

You can define the APPC active conversation threshold on the CONVMAX subparameter of the PARM parameter of the EXEC statement in the APPC member of SYS1.PROCLIB. The CONVMAX value is a 1- to 5-digit number indicating the maximum APPC active conversations a single address space can have before APPC intervenes and takes actions. See the CMACTION parameter description to determine what actions APPC takes when this limit has been reached.

The minimum possible value is CONVMAX=100. If you specify a value between 1 and 99 on the CONVMAX parameter, the system sets the maximum APPC conversions threshold to 100.

The maximum possible value is CONVMAX=20000. If you do not specify a value for CONVMAX, the system uses a default of 2000.

If you specify a value greater than 20000, the system sets the maximum APPC active conversations threshold to 20000.

If you specify a value of 0 (zero) then the system will not monitor the total number of conversations for an

address space, regardless of the quantity.

In the message text:

**number** The total number of conversations for one address space.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBVST

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB020E THE NUMBER OF APPC ACTIVE CONVERSATIONS FOR ASID *num1* HAS CROSSED THE PRE-ESTABLISHED THRESHOLD. NUMBER OF ACTIVE CONVERSATIONS: *num2*; APPC ACTIVE CONVERSATION THRESHOLD: *num3*.**

**Explanation:** The APPC active conversations threshold specified by the CONVMAX parameter has been exceeded. This message is displayed either when CMACTION is set to MSGONLY on the APPC PROC statement, or when the CMACTION keyword is omitted from the APPC PROC statement.

For each APPC active conversation on the system, APPC reserves a certain amount of system storage. A runaway transaction program, which creates many conversations but never deallocates them, could potentially exhaust the fixed amount of system storage that APPC has obtained. To inform the installation of such a program, APPC allows the installation to specify a threshold which will cause notification of such a problem.

You can define the APPC active conversation threshold on the CONVMAX subparameter of the PARM parameter of the EXEC statement in the APPC member of SYS1.PROCLIB. The CONVMAX value is a 1- to 5-digit number indicating the maximum APPC active conversations a single address space can have before a critical action console message is issued for operator intervention, if CMACTION is set to be MSGONLY or the CMACTION is omitted from the APPC PROC statement.

The minimum possible value is CONVMAX=100. If you specify a value between 1 and 99 on the CONVMAX parameter, the system sets the maximum APPC conversions threshold to 100.

The maximum possible value is CONVMAX=20000. If you do not specify a value for CONVMAX, the system uses a default of 2000.

If you specify a value greater than 20000, the system sets the maximum APPC active conversations threshold to 20000.

If you specify a value of 0 (zero) then the system will not monitor the total number of conversations for an address space, regardless of the quantity.

In the message text:

<i>num1</i>	Address space identifier.
<i>num2</i>	Number of active conversations.
<i>num3</i>	APPC active conversations threshold.

**System action:** The system continues processing.

**Operator response:** Contact the system programmer to determine further action.

**System programmer response:** Investigate whether the critical action console message is due to a programming error in an APPC transaction program or due to some APPC stress workload for this address space. (A transaction program which allocates conversations but fails to deallocate the same results in many dangling conversations, which could exhaust APPC storage.) If it is a programming error then cancel the problematic transaction program, fix it, and re-run it. If it is not a problem with the transaction program and also if it is normal for the number of conversations to exceed the conversation threshold limit for that transaction program, then consider changing the CONVMAX parameter to a reasonably higher value such that this message will not appear on a regular basis and re-run the transaction program.

**Source:** APPC/MVS

**Detecting Module:** ATBVSCM

**Routing Code:** 2

**Descriptor Code:** 7,11

---

**ATB021I APPC/MVS ENCOUNTERED INTERNAL ERRORS WHILE PROCESSING TIMED CONVERSATIONS. ALL CONVERSATIONAL SERVICES WILL NOT BE TIMED HEREAFTER.**

**Explanation:** APPC/MVS Timeout function has encountered a severe error and as a result all the processing of timed conversations is completely disabled. Any conversation that attempts to have their conversation monitored by using the Timeout\_Value\_Minutes or Timeout\_Value\_Seconds parameters on either the Allocate or Set\_Timeout service will be rejected.

**System action:** APPC/MVS processing of timed conversations is totally disabled.

**Operator response:** Contact the system programmer. At the request of the system programmer, cancel and restart the APPC address space.

**System programmer response:** Check for APPC-related system abends and their associated

dumps. These dumps should be reported to IBM for further investigation.

**Source:** APPC/MVS

**Detecting Module:** ATBAMTO

**Routing Code:** 2

**Descriptor Code:** 7,11

---

**ATB022I APPC COULD NOT INITIALIZE DUE TO XCF NOTIFICATION FAILURE. APPC HAS RECEIVED RETURN CODE=xxxxxxxx, REASON CODE=yyyyyyyy FROM THE *servname* SERVICE.**

**Explanation:** APPC/MVS was attempting to send the members of the APPC/MVS group notification that APPC has been activated. This notification attempt has failed due to a failure of an XCF macro. The return and reason codes from the specified XCF macro are supplied in the message.

In the message text:

xxxxxxxx	is the return code and
yyyyyyyy	is the reason code from the specified XCF macro.
<i>servname</i>	is the failing XCF service.

**System action:** APPC/MVS terminates but may attempt to restart. APPC issues ATB007I or ATB002I to indicate whether the restart was successful.

**Operator response:** If APPC does not successfully restart, notify the system programmer. At the request of the system programmer, restart the APPC address space.

**System programmer response:** If APPC does not successfully restart, determine the reason for the XCF failure. The service return and reason codes explain the error.

**Source:** APPC/MVS

**Detecting Module:** ATBINSM

**Routing Code:** 2

**Descriptor Code:** 1

---

**ATB023I FAILED TO JOIN the APPC/XCF GROUP. IXCJOIN RETURN CODE = xxxxxxxx, REASON CODE = yyyyyyyy.**

**Explanation:** The APPC address space failed to join the Advanced Program-to-Program Communication (APPC)/cross-system coupling facility (XCF) group during initialization processing due to an environment error.

In the message text:

## ATB024I • ATB027I

xxxxxxx The return code from IXCJOIN (in hexadecimal).  
yyyyyyy The reason code from IXCJOIN (in hexadecimal).

**System action:** The system continues processing without APPC.

**Operator response:** Notify the system programmer. At the request of the system programmer, restart the APPC address space.

**System programmer response:** The IXCJOIN return and reason codes explain the error. If, for example, the message shows a return code of 4 and a reason code of C, the maximum number of groups already exists.

For the other IXCJOIN return and reason codes, see *z/OS MVS Programming: Sysplex Services Reference*. When you have corrected the problem, notify the operator to restart the APPC address space.

**Source:** APPC/MVS

**Detecting Module:** ATBINGI

**Routing Code:** 2

**Descriptor Code:** 1

---

**ATB024I    INITIALIZATION OF APPC/XCF GROUP NAME FAILED: IXCQUERY RETURN CODE = xxxxxxxx REASON CODE = yyyyyyyy.**

**Explanation:** The system could not initialize Advanced Program-to-Program Communication (APPC)/cross-system coupling facility (XCF) group name because the IXCQUERY macro did not run successfully.

In the message text:

xxxxxxx The return code from IXCQUERY (in hexadecimal).  
yyyyyyy The reason code from IXCQUERY (in hexadecimal).

**System action:** The system continues initialization without establishing the APPC/XCF group name.

**Operator response:** Notify the system programmer. Do not enter the START APPC command. If APPC is an integral part of the system, reIPL the system.

**System programmer response:** XCF is a prerequisite for APPC, so the XCF problem must be fixed in order for APPC to perform correctly.

Refer to the IXCQUERY return and reason codes for further information and diagnostics. If this error is due to IBM code issuing IXCQUERY incorrectly, then search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Detecting Module:** ATBMIN

**Routing Code:** 2

**Descriptor Code:** 5

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**ATB025I    INCORRECT CHARACTERS SPECIFIED FOR APPC PARMLIB MEMBER VALUE.**

**Explanation:** On a START APPC or SET APPC command, the operator specified an incorrect suffix for one or more parmlib members.

**System action:** The system stops processing the APPC parmlib member(s). The system continues processing.

**Operator response:** Enter the START APPC or the SET APPC command again with a valid APPC parmlib member suffix. Correct suffix values are alphanumeric characters or national characters.

**Source:** APPC/MVS

**Detecting Module:** ATBPLPX

**Routing Code:** 2

**Descriptor Code:** 5.

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**ATB026I    APPCPMxx IGNORED. MEMBER IS EMPTY.**

**Explanation:** The parmlib member specified on the START APPC or SET APPC command is empty.

In the message text:

**APPCPMxx** The parmlib member, with suffix xx.

**System action:** The system stops processing the parmlib member. The system continues processing the next parmlib member specified on the command, if one exists.

**Operator response:** Notify the system programmer. After the system programmer corrects the problem, enter the SET APPC command to process the parmlib member.

**System programmer response:** Correct the APPCPMxx parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLPR

**Routing Code:** 2

**Descriptor Code:** 5

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**ATB027I    APPCPMxx: LINE num1 - num2 IGNORED. UNBALANCED COMMENT DETECTED.**

**Explanation:** In the APPCPMxx parmlib member, the system found one of the following:

- A starting comment delimiter /\*) with no matching ending comment delimiter /\*)
- An ending comment delimiter with no starting comment delimiter

In the message text:

<b>APPCPMxx</b>	The parmlib member, with the suffix xx.
<i>num1</i>	The line number in APPCPMxx where the unbalanced comment began.
<i>num2</i>	The line number in APPCPMxx where the unbalanced comment ended.

**System action:** The system does not process the statement containing the unbalanced comment. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Notify the system programmer.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check lines *num1* through *num2* in the APPCPMxx parmlib member for syntax errors. Then do one of the following:

- Correct the syntax error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLPR

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB028I APPCPMxx: LINE *num* statement  
STATEMENT IGNORED. STATEMENT  
TYPE NOT RECOGNIZED.**

**Explanation:** The system found an incorrect statement in an APPCPMxx parmlib member.

In the message text:

<b>APPCPMxx</b>	The parmlib member, with the suffix xx.
<i>num</i>	The line number in APPCPMxx where the incorrect statement began.
<i>statement</i>	The incorrect statement.

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Ask the system programmer to

find the syntax error in the APPCPMxx parmlib member. At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number *num* in the APPCPMxx parmlib member for syntax errors. Then do one of the following:

- Correct the syntax error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLPR

**Routing Code:** 2

**Descriptor Code:** 5

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**ATB029I APPCPMxx: LINE *num* statement  
STATEMENT IGNORED. NO  
OPERANDS SPECIFIED.**

**Explanation:** In the specified parmlib member, the system encountered a statement containing no operands.

In the message text:

<b>APPCPMxx</b>	The parmlib member, with the suffix xx.
<i>num</i>	The line number in APPCPMxx where the incorrect statement began.
<i>statement</i>	The statement in error. The value for <i>statement</i> is one of the following: <ul style="list-style-type: none"> <li>• LUADD</li> <li>• LUDEL</li> </ul>

**System action:** The system does not process the statement without operands. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Ask the system programmer to find the syntax error in the APPCPMxx parmlib member.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number *num* in the APPCPMxx parmlib member for syntax errors. Then do one of the following:

- Correct the syntax error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system

## ATB030I • ATB031I

configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLUA

**Routing Code:** 2

**Descriptor Code:** 5

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<b>ATB030I</b>	<b>APPCPMxx: LINE num statement STATEMENT IGNORED. NO keyword KEYWORD SPECIFIED.</b>
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**Explanation:** In the specified parmlib member, a statement does not contain a required keyword.

In the message text:

**APPCPMxx** The APPCPMxx parmlib member.

**num** The line number in APPCPMxx where the incorrect statement began.

**statement** The statement that is in error. The value for *statement* is one of the following:

- LUADD
- LUDEL

**keyword** The missing keyword.

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Ask the system programmer to find the syntax error in the APPCPMxx parmlib member.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number *num* in the APPCPMxx parmlib member for syntax errors. Then do one of the following:

- Correct the syntax error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLUA

**Routing Code:** 2

**Descriptor Code:** 5

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<b>ATB031I</b>	<b>APPCPMxx: LINE num statement STATEMENT IGNORED. DUPLICATE KEYWORD keyword SPECIFIED.</b>
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**Explanation:** In the specified parmlib member, a statement contains a duplicate keyword.

In the message text:

**APPCPMxx** The parmlib member, with the *xx* suffix.

**num** The line number in APPCPMxx where the incorrect statement began.

**statement** The statement in error. The value for *statement* is one of the following:

- LMADD
- LMDEL
- LUADD
- LUDEL
- SIDEINFO

**keyword** The duplicate keyword. The value for *keyword* is one of the following:

- ACBNAME
- BASE
- DATASET
- GRNAME
- LOGMODE
- LUNAME
- MINWINL
- MINWINR
- NONQN
- NOPERSIST
- NQN
- PERSIST
- PSTIMER
- SCHED
- SESSLIM
- TPDATA
- TPLEVEL

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA™.

**System action:** The system rejects the duplicate keyword. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Ask the system programmer to find the syntax error in the APPCPMxx parmlib member.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number *num* in the APPCPMxx parmlib member for syntax

errors. Then do one of the following:

- Correct the syntax error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLUA, ATBPLMA, ATBPLDF

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB032I APPCPMxx: LINE num statement STATEMENT IGNORED. VALUE SPECIFIED FOR KEYWORD keyword IS NOT VALID.**

**Explanation:** The system found a statement with an incorrect keyword value.

In the message text:

<b>APPCPMxx</b>	The parmlib member, with the xx suffix.
<i>num</i>	The line number in APPCPMxx where the incorrect statement began.
<i>statement</i>	The statement in error. The value for <i>statement</i> is one of the following: <ul style="list-style-type: none"> <li>• LMADD</li> <li>• LMDEL</li> <li>• LUADD</li> <li>• LUDEL</li> <li>• SIDEINFO</li> </ul>
<i>keyword</i>	The keyword containing an incorrect value. The <i>keyword</i> is one of the following: <ul style="list-style-type: none"> <li>• ACBNAME</li> <li>• DATASET</li> <li>• GRNAME</li> <li>• LOGMODE</li> <li>• LUNAME</li> <li>• MINWINL</li> <li>• MINWINR</li> <li>• PSTIMER</li> <li>• SCHED</li> <li>• SESSLIM</li> <li>• TPDATA</li> <li>• TPLEVEL</li> </ul>

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY

DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA.

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Ask the system programmer to find the syntax error in the APPCPMxx parmlib member.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number *num* in the APPCPMxx parmlib member for syntax errors. Then do one of the following:

- Correct the syntax error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLUA, ATBPLMA, ATBPLDF

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB033I APPCPMxx: LINE num statement STATEMENT IGNORED. UNRECOGNIZED KEYWORD: keyword.**

**Explanation:** The system found a statement with an unrecognized keyword.

In the message text:

<b>APPCPMxx</b>	The parmlib member, with suffix xx.
<i>num</i>	The line number in APPCPMxx where the incorrect statement began.
<i>statement</i>	The incorrect statement. The <i>statement</i> is one of the following: <ul style="list-style-type: none"> <li>• LMADD</li> <li>• LMDEL</li> <li>• LUADD</li> <li>• LUDEL</li> <li>• SIDEINFO</li> </ul>
<i>keyword</i>	The unrecognized keyword.

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA.

**System action:** The system does not process the

## ATB034I • ATB035I

incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Ask the system programmer to find the syntax error in the APPCPMxx parmlib member.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number *num* in the APPCPMxx parmlib member for syntax errors. Then do one of the following:

- Correct the syntax error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLUA, ATBPLMA, ATBPLDF

**Routing Code:** 2

**Descriptor Code:** 5

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<b>ATB034I</b>	<b>APPCPMxx: LINE <i>num</i> statement STATEMENT IGNORED. MISSING RIGHT PARENTHESIS FOR A KEYWORD VALUE SPECIFIED IN THE STATEMENT.</b>
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**Explanation:** The system found a statement in parmlib member APPCPMxx that contained one of the following errors:

- A keyword value that had a right parenthesis missing.
- A correct keyword value with a suffix added. Keyword values cannot have suffixes.

In the message text:

<b>APPCPMxx</b>	The parmlib member, with suffix <i>xx</i> .
<i>num</i>	The line number in APPCPMxx where the incorrect statement began.
<i>statement</i>	The incorrect statement. The <i>statement</i> is one of the following: <ul style="list-style-type: none"><li>• LMADD</li><li>• LMDEL</li><li>• LUADD</li><li>• LUDEL</li><li>• SIDEINFO</li></ul>

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY

DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA.

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Ask the system programmer to find the syntax error in the APPCPMxx parmlib member.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number *num* in the APPCPMxx parmlib member for syntax errors. Then do one of the following:

- Correct the syntax error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLUA, ATBPLMA, ATBPLDF

**Routing Code:** 2

**Descriptor Code:** 5

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<b>ATB035I</b>	<b>APPCPMxx: LINE <i>num</i> statement STATEMENT IGNORED. NO VALUE SPECIFIED FOR KEYWORD <i>keyword</i>.</b>
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**Explanation:** In the specified parmlib member, a statement contains either an incorrect record or a syntax error.

In the message text:

<b>APPCPMxx</b>	The parmlib member, with suffix <i>xx</i> .
<i>num</i>	The line number in APPCPMxx where the incorrect statement began.
<i>statement</i>	The statement containing the error. The <i>statement</i> is one of the following: <ul style="list-style-type: none"><li>• LMADD</li><li>• LMDEL</li><li>• LUADD</li><li>• LUDEL</li><li>• SIDEINFO</li></ul>
<i>keyword</i>	The keyword containing the error. The <i>keyword</i> is one of the following: <ul style="list-style-type: none"><li>• ACBNAME</li><li>• DATASET</li><li>• GRNAME</li><li>• LOGMODE</li><li>• LUNAME</li><li>• MINWINL</li><li>• MINWINR</li><li>• PSTIMER</li></ul>

- SCHED
- SESSLIM
- TPDATA
- TPLEVEL

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA.

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Ask the system programmer to find the syntax error in the APPCPMxx parmlib member.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number *num* in the APPCPMxx parmlib member for syntax errors. Then do one of the following:

- Correct the syntax error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLUA, ATBPLMA, ATBPLDF

**Routing Code:** 2

**Descriptor Code:** 5

**ATB036I APPCPMxx: STARTING LINE num MEMBER IGNORED. statement STATEMENT TEXT EXCEEDS 4096 CHARACTERS.**

**Explanation:** In the specified parmlib member, a statement is too long or contains a syntax error.

In the message text:

**APPCPMxx** The parmlib member, with the *xx* suffix.

*num* The line number in APPCPMxx where the incorrect statement began.

*statement* The statement in error. The *statement* is one of the following:

- LMADD
- LMDEL
- LUADD
- LUDEL

- SIDEINFO

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA.

**System action:** The system does not process the rest of this parmlib member. Any prior valid statements processed are accepted.

**Operator response:** Ask the system programmer to find the syntax error in the APPCPMxx parmlib member.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number *num* in the APPCPMxx parmlib member for syntax errors. Then do one of the following:

- Correct the syntax error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLPR

**Routing Code:** 2

**Descriptor Code:** 5

**ATB038I APPCPMxx: *stmtrec***

**Explanation:** This message displays the Advanced Program-to-Program Communication (APPC) parmlib member and the statement that the system is processing.

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA.

In the message text:

**APPCPMxx** The parmlib member, with the *xx* suffix.

*stmtrec* The statement record the system is currently processing.

**System action:** The system continues processing.

## ATB039I • ATB041I

**Source:** APPC/MVS

**Detecting Module:** ATBPLPR

**Routing Code:** 2

**Descriptor Code:** 5

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**ATB039I SET APPC COMMAND IGNORED.  
APPC NOT ACTIVE.**

**Explanation:** The operator entered a SET APPC command, but Advanced Program-to-Program Communication (APPC) is not active. You cannot enter the SET APPC command when one of the following is true:

- APPC is not started.
- APPC is initializing.
- APPC is ending.

**System action:** The system rejects the SET APPC command.

**Operator response:** Enter a DISPLAY APPC command to check APPC system status and to determine when you can enter the SET APPC command.

**Source:** APPC/MVS

**Detecting Module:** ATBPLPS

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB040I SYSTEM ERROR ENCOUNTERED IN  
APPC PARMLIB PROCESSING.**

**Explanation:** The system found unexpected system error(s) while processing the Advanced Program-to-Program Communication (APPC) parmlib member(s). START APPC or SET APPC command processing may be incomplete.

This problem might be due to either a temporary system storage shortage, or loss of some APPC parmlib statements.

**System action:** Command processing may be incomplete. The system writes an SVC dump and continues processing.

**Operator response:** Notify the system programmer.

**System programmer response:** Enter the DISPLAY APPC command to verify the APPC system configuration. Determine whether you should enter a SET APPC command to update current configuration.

If the problem recurs, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump.

**Source:** APPC/MVS

**Detecting Module:** ATBPLPS, ATBPLPX, ATBPLPR,

ATBPLUA, ATBPLMA, ATBPLDF, ATBPLCK, ATBLUPL, ATBSD93

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB041I APPCPMxx: LINE num statement  
STATEMENT IGNORED. keyword1 AND  
keyword2 ARE MUTUALLY EXCLUSIVE.**

**Explanation:** In the specified parmlib member, a statement was found to contain keywords or keyword values that are mutually exclusive.

In the message text:

**APPCPMxx** The parmlib member, with suffix xx.

**num** The line number in APPCPMxx where the incorrect statement began.

**statement** The name of the statement containing the error. The *statement* is as follows:

- LMADD, LUDEL

**keyword1 and keyword2**

The keywords or values that are mutually exclusive. They can be one of the following pairs:

- SCHED and NOSCHED
- NOSCHED and TPLEVEL(GROUP)
- NOSCHED and TPLEVEL(USER)
- NQN and NONQN
- PERSIST and NOPERSIST

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Ask the system programmer to find the syntax error in the APPCPMxx parmlib member.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number *num* in the APPCPMxx parmlib member for the mutually exclusive keywords or keyword values. Then do one of the following:

- Correct the error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statement(s) needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB042I APPCPMxx: LINE num statement  
STATEMENT IGNORED. STATEMENT  
TYPE NO LONGER SUPPORTED.**


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**Explanation:** Advanced program-to-program communication (APPC) no longer supports the specified statement found in the APPCPMxx member of SYS1.PARMLIB.

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA.

In the message text:

**APPCPMxx** The parmlib member, with the suffix xx.

**num** The line number in APPCPMxx where the incorrect statement began.

**statement** The statement in error. The value for **statement** is one of the following:

- LMADD
- LMDEL

**System action:** The system ignores the statement. The system processes the next statement in the APPCPMxx member, if one exists.

**Operator response:** Ask the system programmer to remove the LMADD and LMDEL statements from the APPCPMxx member.

**System programmer response:** Remove the LMADD and LMDEL statements from the APPCPMxx member. If changing session limits is desired, refer to *z/OS Communications Server: SNA Operation* for additional information on VTAM operator commands and *z/OS Communications Server: SNA Resource Definition Reference* for information on the VTAM APPL definition statement.

**Source:** APPC/MVS

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB043I APPCPMxx: LINE num statement  
STATEMENT IGNORED. GENERIC  
RESOURCE NAME gname IS THE  
SAME AS THE LOGICAL UNIT NAME.**


---

**Explanation:** In the specified parmlib member, a statement contains ACBNAME and GRNAME parameters, both specifying the same name.

In the message text:

**APPCPMxx** The parmlib member, with suffix xx.

**num** The line number in APPCPMxx where the incorrect statement began.

**statement** The statement containing the error. The **statement** is LUADD.

**System action:** The system does not process the incorrect statement. The system processes the next statement in the parmlib member, if one exists.

**Operator response:** Ask the system programmer to find and fix the error in the APPCPMxx parmlib member.

At the request of the system programmer, enter the SET APPC command to process either the corrected parmlib member or a new one.

**System programmer response:** Check line number **num** in the APPCPMxx parmlib member for syntax errors. Then do one of the following:

- Correct the error in the existing parmlib member and have the operator enter the SET APPC command to process it.
- Create a new parmlib member with only the corrected statements needed to modify the APPC system configuration. Then ask the operator to enter a SET APPC command to process the new parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBPLUA

**Routing Code:** 2

**Descriptor Code:** 5

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**ATB044I THE APPC LOGGING OPTION IS keyword**


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**Explanation:** Advanced Program-to-Program Communication (APPC) is started with the APPC logging option indicated. This message is issued to hardcopy only.

APPC uses a System Logger log stream whenever a synchronization level of SYNCPT is selected by a transaction program, and when an LU has been made syncpt-capable. This log stream is used to store persistent data needed in support of the two-phase commit protocol.

An installation can choose to have the log stream name contain the RRS GNAME (RRS logging group) as one of the log stream name qualifiers. This allows installations to have more than one APPC log stream in the same sysplex. To select this option, the installation would define a value of RRSGNAME on the LOGGING subparameter of the PARM parameter of the EXEC statement in the APPC member of SYS1.PROCLIB. See *z/OS MVS Programming: Resource Recovery*, SA22-7616 for more information concerning the RRS GNAME parameter.

If an installation chooses to have just one APPC log stream in the sysplex, it can specify a value of LEGACY on the LOGGING subparameter or it can omit the

## ATB047I • ATB048E

LOGGING subparameter entirely.	<b>System programmer response:</b> None.
In the message text:	<b>Source:</b> APPC/MVS
keyword      The LOGGING option preferred. The   valid keyword values are:        RRSGNAME or LEGACY.	<b>Detecting Module:</b> ATBVSIT
<b>System action:</b> The system continues processing.	<b>Routing Code:</b> 2
<b>Operator response:</b> None.	<b>Descriptor Code:</b> 4
<b>System programmer response:</b> None.	
<b>Source:</b> APPC/MVS	<b>ATB048E THE MAXIMUM NUMBER OF APPC ACTIVE CONVERSATIONS FOR ASID num1 HAS BEEN REACHED. APPC ACTIVE CONVERSATION THRESHOLD: num2.</b>
<b>Detecting Module:</b> ATBINPR	
<b>Routing Code:</b> 2	<b>Explanation:</b> The APPC active conversations threshold specified by the CONVMAX parameter has been reached. No new conversations will be allowed to start in this address space until conversations have been deallocated or cleaned up.
<b>Descriptor Code:</b> 5	For each APPC active conversation on the system, APPC reserves a certain amount of system storage. A runaway transaction program, which creates many conversations but never deallocates them, could potentially exhaust the fixed amount of system storage that APPC has obtained. To inform the installation of such a program, and to optionally halt all new conversations in a particular address space when that address space has reached or exceeded that limit, APPC allows the installation to specify the action required when a single address space exceeds this maximum value.
<b>ATB047I THE APPC ACTIVE CONVERSATION THRESHOLD ACTION IS value.</b>	You can define the APPC active conversation threshold action using the CMACTION subparameter of the PARM parameter on the EXEC statement in the APPC member of SYS1.PROCLIB. The CMACTION value can either be MSGONLY (default) or HALTNEW: <ul style="list-style-type: none"><li>• If MSGONLY is selected, when the CONVMAX limit has been exceeded, APPC issues a critical action console message to inform the installation of the potential problem in the affected address space.</li><li>• If HALTNEW is selected, when the CONVMAX limit has been reached, APPC prevents any new conversations from being started in the address space, and issues a different critical action message to the console to inform the installation that the CONVMAX limit has been reached.</li></ul>
In the message text:	In the message text:
value      MSGONLY or HALTNEW	<i>num1</i> The address space identifier.
<b>System action:</b> The system continues processing.	<i>num2</i> The APPC active conversation threshold.
<b>Operator response:</b> None.	<b>System action:</b> The system prohibits new conversations from starting in the address space identified in the message.
	<b>Operator response:</b> Contact the system programmer.
	<b>System programmer response:</b> Investigate whether the critical action console message is caused by a programming error in an APPC transaction program or by some APPC stress workload for this address space. A transaction program that allocates conversations but fails to deallocate them results in many dangling conversations, which could exhaust APPC storage.

- If it is a programming error, cancel the problem transaction program, fix it and rerun it.
  - If it is not programming error, and the required number of conversations exceeds the conversation threshold limit for that transaction program, you can change the CONVMAX parameter to a reasonably higher value, and then rerun the transaction program.
- When conversations have been deallocated from the address space, this condition goes away and the message is ended.
- Source:** APPC/MVS  
**Detecting Module:** ATBVSCM  
**Routing Code:** 2  
**Descriptor Code:** 7,11

**ATB050I    LOGICAL UNIT *luname* FOR  
TRANSACTION SCHEDULER  
*schedname* HAS BEEN ADDED TO THE  
APPC CONFIGURATION.**

**Explanation:** The specified logical unit (LU) was added to the Advanced Program-to-Program Communication (APPC) configuration and is ready for communication.

In the message text:

*luname*        The LU that has been added.  
*schedname*      The scheduler that will use this LU.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** Hardcopy only

**Descriptor Code:** 4

**ATB051I    LOGICAL UNIT *luname* FOR  
TRANSACTION SCHEDULER  
*schedname* HAS BEEN DELETED FROM  
THE APPC CONFIGURATION.**

**Explanation:** A logical unit (LU) has been deleted from the Advanced Program-to-Program Communication (APPC) configuration in response to a SET APPC=xx command.

In the message text:

*luname*        The LU that has been deleted.  
*schedname*      The scheduler that was using this LU.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBLUEX

**Routing Code:** Hardcopy only

**Descriptor Code:** 4

**ATB052E    LOGICAL UNIT *luname* FOR  
TRANSACTION SCHEDULER  
*schedname* NOT ACTIVATED IN THE  
APPC CONFIGURATION. REASON  
CODE = *error-field-value*.**

**Explanation:** A START APPC,SUB=MSTR,APPC=xx command or a SET APPC=xx command was issued to specify an APPCPMxx parmlib member that activates a logical unit (LU) in the Advanced Program-to-Program Communication (APPC) configuration. However, the system could not open the Virtual Telecommunications Access Method (VTAM) access method control block (ACB) for the specified LU. This LU is in pending state. Some of the return codes returned from OPEN can be a temporary condition which gets resolved. For example, this message may be encountered when APPC/MVS is activated, but VTAM is not active or completely initialized. To determine if the problem has been resolved, check the status of the LU by issuing the DISPLAY APPC,LU,ALL command. If the LU is now active then the condition has been resolved and no further actions are required.

In the message text:

<i>luname</i>	The pending LU.
<i>schedname</i>	The transaction scheduler that will use this LU.
<i>error-field-value</i>	The value of the VTAM OPEN macro ERROR field (in hexadecimal).

**System action:** The system continues processing.

**Operator response:** Ask the system programmer to correct the problem. If the pending LU is not needed, enter the SET APPC command to delete it.

**System programmer response:** *error-field-value* is the value of the ERROR field returned by the VTAM OPEN macro. For more information, see ERROR field meanings for the OPEN macro in *z/OS Communications Server: SNA Programming*. When you correct the problem, the system will activate the LU.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 11

**ATB053I    LOGICAL UNIT *luname* FOR  
TRANSACTION SCHEDULER  
*schedname* NOT ADDED. IT ALREADY  
EXISTS IN THE APPC  
CONFIGURATION.**

**Explanation:** The operator entered a SET APPC=xx command to specify an APPCPMxx parmlib member that adds a logical unit (LU) to the Advanced

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Program-to-Program Communication (APPC) configuration. However, the system could not make the change, because the specified LU already exists in the configuration.

In the message text:

*luname* The duplicate LU.  
*schedname* The transaction scheduler that will use this LU.

**System action:** The system continues processing.

**Operator response:** Enter the DISPLAY APPC,LU,ALL command to verify the current APPC configuration.

**Source:** APPC/MVS

**Detecting Module:** ATBLUAD

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB054I** **LOGICAL UNIT *luname* NOT DELETED. IT DOES NOT EXIST IN THE APPC CONFIGURATION.**

**Explanation:** The operator entered a SET APPC=xx command to specify an APPCPMxx parmlib member that deletes a logical unit (LU) from the Advanced Program-to-Program Communication (APPC) configuration, but the system could not delete it because the LU does not exist.

In the message text:

*luname* The non-existent LU.

**System action:** The system continues processing.

**Operator response:** Enter the DISPLAY APPC command to verify the current APPC configuration.

**Source:** APPC/MVS

**Detecting Module:** ATBLUDE

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB055I** **LOGICAL UNIT *luname* FOR TRANSACTION SCHEDULER *schedname* HAS BEEN TERMINATED DUE TO SYSTEM ERROR. REASON CODE=xx.**

**Explanation:** A logical unit (LU) has been deactivated due to a system error. No further work will be accepted for this LU.

In the message text:

*luname* The LU that has been deactivated.  
*schedname* The scheduler that was using this LU.

*xx* An internal reason code.

**System action:** The system issues an SVC dump.

**Operator response:** Enter the SET APPC command for a parmlib member that will reactivate this LU if necessary.

**System programmer response:** If the problem persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB056I** **LOGICAL UNIT *luname* FOR TRANSACTION SCHEDULER *schedname* NOT ADDED DUE TO A SYSTEM ERROR. REASON CODE = *reason-code*.**

**Explanation:** An operator entered a SET APPC=xx command to change the applicable APPCPMxx parmlib member and to change the logical unit (LU) Advanced Program-to-Program Communication (APPC) configuration. The system could not add the LU to the configuration because of a system error.

In the message text:

*luname* The LU that could not be added to the APPC configuration.

*schedname* The scheduler that will use this LU.

*reason-code* The failure reason code.

**System action:** The system continues processing.

**Operator response:** Try entering the SET command again to add the LU to the APPC configuration. If you still cannot add the LU, notify the system programmer.

**System programmer response:** If the problem persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the reason code issued by this message.

**Source:** APPC/MVS

**Detecting Module:** ATBLUMM, ATBLUAD, ATBLUET

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB057I** **LOGICAL UNIT *luname* NOT DELETED DUE TO A SYSTEM ERROR. REASON CODE = *reason-code*.**

**Explanation:** The operator entered a SET APPC=xx command to specify an APPCPMxx parmlib member

that deletes a logical unit (LU) from the Advanced Program-to-Program Communication (APPC) configuration, but the system could not delete the LU because of a system error.

In the message text:

*luname* The logical unit that could not be deleted.

*reason-code* The failure reason code.

**System action:** The system continues processing.

**Operator response:** Enter the SET command to delete the LU again. If you still cannot add the LU, notify the system programmer.

**System programmer response:** If the problem persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the reason code issued by this message.

**Source:** APPC/MVS

**Detecting Module:** ATBLUMM, ATBLUDE

**Routing Code:** 2

**Descriptor Code:** 4

#### ATB058I SESSION VALUES NOT DEFINED FOR LOGICAL UNIT *luname*.

**Explanation:** The operator entered a SET command to define session values, but the logical unit (LU) for which the session values are being defined is not in the Advanced Program-to-Program Communication (APPC) configuration.

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA.

In the message text:

*luname* The undefined LU.

**System action:** The system continues processing.

**Operator response:** Enter the DISPLAY APPC command to display the active LUs. Then enter the SET command to define session values for a defined LU.

**System programmer response:** Check the LMADD statement in the APPCPMxx parmlib member to make sure that the ACBNAME specified is already in the APPC configuration.

**Source:** APPC/MVS

**Detecting Module:** ATBLUMA

**Routing Code:** 2

**Descriptor Code:** 4

#### ATB059I SESSION VALUES NOT DELETED FOR LOGICAL UNIT *luname*.

**Explanation:** The system encountered an internal error while processing a SET LMDEL command. A specified connection is not in the Advanced Program-to-Program Communication (APPC) configuration.

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA.

In the message text:

*luname* The logical unit (LU) whose connection is not defined.

**System action:** The system continues processing.

**Operator response:** Enter the SET command to delete session values for a defined LU connection.

**System programmer response:** Check the LMDEL statement in the APPCPMxx parmlib member to make sure that a corresponding LMADD statement has been processed previously.

**Source:** APPC/MVS

**Detecting Module:** ATBLUMD

**Routing Code:** 2

**Descriptor Code:** 4

#### ATB060I SESSION VALUES NOT PROCESSED FOR LOGICAL UNIT *luname* DUE TO A SYSTEM ERROR.

**Explanation:** The system encountered an error while processing a SET LMADD or LMDEL command.

The LMADD and LMDEL statements in the APPCPMxx member are no longer valid. Session-limit values can be changed by entering the VTAM MODIFY CNOS and MODIFY DEFINE operator commands, or by modifying the VTAM APPL definition statement and then restarting APPC/MVS. The VTAM MODIFY CNOS and MODIFY DEFINE operator commands are available in VTAM Version 3 Release 4 for MVS/ESA.

In the message text:

*luname* The logical unit (LU) whose session values were not processed.

**System action:** The system continues processing.

**Operator response:** Enter the SET command again to delete session values. If the session values still cannot

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be deleted, notify the system programmer.

**System programmer response:** This condition is probably caused by a system error. Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Detecting Module:** ATBLULM

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB061I      LOGICAL UNIT *luname* FOR  
TRANSACTION SCHEDULER  
*schedname* WAS NOT COMPLETELY  
MODIFIED. REASON CODE =  
*reason-code***

**Explanation:** The system encountered an error while processing a SET APPC command to modify a logical unit (LU). The logical unit specified was not modified. The reason code indicates the type of error.

In the message text:

<i>luname</i>	The specified LU.
<i>schedname</i>	The name of the transaction scheduler that will use this LU. For a NOSCHED LU, the value is *NONE*.
<i>reason-code</i>	One of the following (hex) failure reason codes:
<b>Reason Code</b>	<b>Explanation</b>
01	The user tried to dynamically change the scheduler name.
02	The user tried to dynamically change USERVERVAR data.
03	The user tried to dynamically change ALTLU data.
04	The user tried to dynamically change from SCHED to NOSCHED.
05	The user tried to dynamically change from NOSCHED to SCHED.
06	In the APPCPMxx parmlib member, a value other than SYSTEM was specified for the TPLEVEL keyword for a NOSCHED LU.
07	The user tried to dynamically change or add a generic resource name using the GRNAME keyword.
08	The user tried to dynamically change from NQN to NONQN.
09	The user tried to dynamically change from NONQN to NQN.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** To modify the LU, use the SET APPC command to first delete the LU and then add it again with the new attribute.

**Source:** APPC/MVS

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB062I      LOGICAL UNIT *luname* FOR  
TRANSACTION SCHEDULER  
*schedname* HAS BEEN TERMINATED  
DUE TO ALTERNATE APPLICATION  
TAKEOVER.**

**Explanation:** An application outside of Advanced Program-to-Program Communication (APPC) tried to open an access method control block (ACB) that was originally opened by APPC. This causes the system to close the logical unit (LU) associated with the ACB.

The fields in the message text are:

<i>luname</i>	The name of the logical unit that the system closed.
<i>schedname</i>	The name of the transaction scheduler that was using this logical unit.

**System action:** The system continues processing.

**Operator response:** Notify the system programmer. Enter the SET APPC command to re-activate this logical unit if necessary.

**System programmer response:** This problem may be due to a security violation. Only authorized programs defined to RACF can open an ACB that was originally opened by APPC.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 12

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**ATB063I      PSTIMER PARAMETER REQUIRES  
VTAM PERSISTENT SESSIONS  
SUPPORT.**

**Explanation:** In an Advanced Program-to-Program Communication (APPC) address space, the PSTIMER keyword on an LUADD statement requested that persistent sessions be used for a logical unit. However, the VTAM level available on the system does not support persistent sessions. VTAM 3.4 or higher is required for persistent sessions. The system ignores the request.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBLUAD

ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB064I    LOGICAL UNIT *luname* FOR  
TRANSACTION SCHEDULER NOT  
ACTIVE. REASON CODE=*reason-code*.**

**Explanation:** A logical unit is not functioning properly. The reason code indicates the type of error.

In the message text:

<i>luname</i>	The name of the logical unit that is not active.
<i>reason-code</i>	The reason code explaining the error is the following:
01	The level of VTAM in the system does not support cross-memory applications program interface (API) functions.
02	The APPL name does not match the ACB name for the logical unit.
03	The VTAM APPL definition statement must specify <i>both</i> SYNCLVL=SYNCPT and ATNLOSS=ALL, to enable the LU for protected conversations support.

**System action:** The LU is placed in pending state. APPC/MVS continues processing.

**Operator response:** Notify the system programmer.

**System programmer response:** Depending on the reason code, do one of the following:

- For reason code X'01', make sure that VTAM/ESA 3.3+SPE, or a later release of VTAM, is installed on your system.
- For reason code X'02', you must make sure that the ACB name and the APPL name for the logical unit are the same for APPC to function properly. Specify the same name for the logical unit in the following places:
  - Specify the ACB name on the LUADD parmlib statement
  - Specify the APPL name on the APPL statement in SYS1.VTAMLIST.
- For reason code X'03', make sure that the APPL definition statement contains the appropriate value for the SYNCLVL keyword. The SYNCLVL keyword value should be SYNCPT only if you want the LU to be

enabled for protected conversations support; in this case, you must specify ATNLOSS=ALL on the APPL statement as well.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB065I    GRNAME PARAMETER FOR LOGICAL  
UNIT *luname* IS IGNORED. APPC/MVS  
GENERIC RESOURCE SUPPORT  
REQUIRES VTAM V4R4.**

**Explanation:** An LUADD statement in an APPCPMxx parmlib member specified the GRNAME keyword, which requests that the logical unit (LU) be registered with VTAM as a generic resource, with the specified generic resource name. APPC/MVS requires VTAM Version 4 Release 4 or higher for generic resource support, but the VTAM level on this system is not VTAM V4R4 or higher.

In the message text:

*luname* The name of the logical unit that APPC/MVS is activating.

**System action:** The system ignores the GRNAME parameter, and continues to activate the LU without the generic resource name, and without registering the LU with VTAM as a member of the generic resource group.

**Operator response:** Notify the system programmer.

**Application Programmer Response:** If you want to define APPC/MVS LUs as VTAM generic resources:

1. Install VTAM V4R4.
2. Use the SET APPC command to delete the LU.
3. Use the SET APPC command again to add the LU with a generic resource name.

Otherwise, no action is necessary.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB066I    LOGICAL UNIT *luname* NOT  
ACTIVATED. FAILURE IN  
REGISTERING LOGICAL UNIT WITH  
GENERIC RESOURCE NAME *grname*.  
VTAM RETURN CODE:*vtam-return-code*,  
*FDB2:fdb2***

**Explanation:** An LUADD statement in an APPCPMxx parmlib member specified the GRNAME keyword, which requests that the logical unit (LU) be registered with VTAM as a generic resource, with the specified generic

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resource name. When APPC/MVS attempted to register the LU with VTAM, VTAM rejected the request.

In the message text:

<i>luname</i>	The name of the logical unit that APPC/MVS was attempting to activate.
<i>grname</i>	The generic resource name that APPC/MVS was attempting to associate with the logical unit. This is the value that was specified in the APPCPMxx parmlib member.
<i>vtam-return-code</i>	VTAM feedback information (in hexadecimal) that indicates the recovery action return code.
<i>fdb2</i>	VTAM feedback information (in hexadecimal) that indicates the specific error return code.

**System action:** APPC/MVS deletes the LU. The system continues processing.

**Operator response:** Notify the system programmer. At the request of the system programmer, enter the SET APPC command to add the logical unit.

**System programmer response:** Refer to the information about fields RTNCD and FDB2 in *z/OS Communications Server: SNA Programmer's LU 6.2 Guide* to determine the meaning of the *vtam-return-code* and *fdb2* values and the actions necessary to correct the problem.

When the problem has been corrected, ask the operator to enter a SET APPC command to process the parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

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<b>ATB067I</b>	<b>LOGICAL UNIT <i>luname</i> NOT ACTIVATED. FAILURE IN REGISTERING LOGICAL UNIT WITH GENERIC RESOURCE NAME <i>grname</i>. VTAM RETURN CODE:<i>vtam-return-code</i>, FDB2:<i>fdb2</i></b>
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**Explanation:** An LUADD statement in an APPCPMxx parmlib member specified the GRNAME keyword, which requests that the logical unit (LU) be registered with VTAM as a generic resource, with the specified generic resource name. When APPC/MVS attempted to register the LU with VTAM, VTAM rejected the request.

In the message text:

<i>luname</i>	The name of the logical unit that APPC/MVS was attempting to activate.
<i>grname</i>	The generic resource name that APPC/MVS was attempting to associate with the logical unit. This is the value that was specified in the APPCPMxx parmlib member.
<i>vtam-return-code</i>	VTAM feedback information (in hexadecimal) that indicates the recovery action return code.
<i>fdb2</i>	VTAM feedback information (in hexadecimal) that indicates the specific error return code.

**System action:** APPC/MVS deletes the LU. A dump is taken. The system continues processing.

**Operator response:** Notify the system programmer. At the request of the system programmer, enter the SET APPC command to add the logical unit.

**System programmer response:** Refer to the information about fields RTNCD and FDB2 in *z/OS Communications Server: SNA Programmer's LU 6.2 Guide* to determine the meaning of the *vtam-return-code* and *fdb2* values and the actions necessary to correct the problem.

When the problem has been corrected, ask the operator to enter a SET APPC command to process the parmlib member.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

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<b>ATB068I</b>	<b>NQN PARAMETER FOR LOGICAL UNIT <i>luname</i> IS IGNORED. APPC/MVS NETWORK-QUALIFIED NAME SUPPORT REQUIRES VTAM V4R4.</b>
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**Explanation:** The NQN keyword on an LUADD statement for the specified logical unit requested that the LU be defined as capable of supporting network-qualified names. APPC/MVS requires VTAM Version 4 Release 4 or higher for network-qualified name support, but the VTAM level on this system is not VTAM V4R4 or higher.

In the message text:

*luname* The name of the logical unit that APPC/MVS is activating.

**System action:** The system ignores the NQN parameter, and continues to activate the LU without the ability to handle network-qualified names.

**Operator response:** Notify the system programmer.

**Application Programmer Response:** If you want to define APPC/MVS LUs as capable of handling network-qualified names, IBM recommends that you do the following:

1. Install VTAM V4R4.
2. Use the SET APPC command to delete the LU.
3. Use the SET APPC command again to add the LU with NQN capability.

If you do not follow these steps, the LU might be able to handle outbound Allocate requests that use network-qualified names to identify partner LUs, but the results might be unpredictable.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

**ATB069I PROTECTED CONVERSATIONS FOR LOGICAL UNIT *luname* IS NOT AVAILABLE. APPC/MVS PROTECTED CONVERSATIONS SUPPORT REQUIRES VTAM V4R4.**

**Explanation:** The VTAM APPL statement definition for this APPC/MVS LU specified SYNCLVL=SYNCPT and ATNLOSS=ALL, but the VTAM level on this system is not VTAM Version 4 Release 4 or higher. APPC/MVS requires VTAM V4R4 or higher for LUs to process protected conversations (conversations with a synchronization level of syncpt).

In the message text:

*luname* The name of the logical unit that APPC/MVS is activating.

**System action:** The system ignores the values for the SYNCLVL and ATNLOSS parameters and continues to activate the LU. The LU can process only conversations with a synchronization level of none or confirm.

**Operator response:** Notify the system programmer.

**Application Programmer Response:** If you want to define APPC/MVS LUs to support protected conversations, IBM recommends that you do the following:

1. Install VTAM V4R4.
2. Use the SET APPC command to delete the LU.
3. Use the SET APPC command again to activate the LU with syncpoint capability.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

**ATB070I LOGICAL UNIT *luname* FOR TRANSACTION SCHEDULER *schedname* IS TERMINATING DUE TO XCF NOTIFICATION FAILURE. APPC HAS RECEIVED RETURN CODE=xxxxxxxx, REASON CODE=yyyyyyyy FROM THE *servname* SERVICE.**

**Explanation:** APPC was attempting to send the status of the LU to the members of the APPC/MVS group. This attempt has failed due to a failure of an XCF macro. The return and reason codes from the specified XCF macro are supplied in the message.

In the message text:

xxxxxxxx is the return code and

yyyyyyyy is the reason code from the specified XCF macro.

*servname* is the failing XCF service.

**System action:** The LU is deleted from the APPC configuration.

**Operator response:** Notify the system programmer. At the request of the system programmer, reactivate the LU by performing a SET APPC=xx command.

**System programmer response:** Determine the reason for the XCF failure. The service return and reason codes explain the error. For the description of the return and reason codes, See *z/OS MVS Programming: Sysplex Services Reference*. Correct the problem. Reactivate the LU by performing a SET APPC=xx command.

**Source:** APPC/MVS

**Detecting Module:** ATBINSM

**Routing Code:** 2

**Descriptor Code:** 1

**ATB071I PERSIST PARAMETER ON LUDEL FOR LOGICAL UNIT *luname* IS IGNORED. THE LU WAS NOT ENABLED FOR PERSISTENT SESSIONS.**

**Explanation:** The PERSIST keyword on an LUDEL statement for the specified logical unit requested that APPC/MVS should not deactivate any persistent sessions between the LU and its partners. However, the value of the PSTIMER keyword on the LUADD for this LU was NONE at the time of the LUDEL, meaning that the LU was not enabled for persistent sessions.

In the message text:

*luname* The name of the logical unit that APPC/MVS is deactivating.

**System action:** The system ignores the PERSIST parameter and continues to deactivate the LU. When

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the LU is terminated, no sessions between the LU and its partners will be active.

**Operator response:** Notify the system programmer.

**Application Programmer Response:** If you want to keep sessions active after an LUDEL has been performed for an LU, IBM recommends that you do the following:

- Enable the LU to support persistent sessions. For more information on persistent sessions, see *z/OS MVS Planning: APPC/MVS Management*. For details on the PSTIMER keyword, see *z/OS MVS Initialization and Tuning Reference*.
- Use the SET APPC command to delete the LU, specifying the PERSIST keyword.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:**

**Descriptor Code:**

---

**ATB072I    LOGICAL UNIT *luname* NOT ADDED TO THE APPC CONFIGURATION BECAUSE THE MAXIMUM NUMBER OF SCHEDULER-BASED LOCAL LUS HAS BEEN REACHED.**

**Explanation:** The installation has reached the maximum number of local LUs that can be associated with a transaction scheduler on this z/OS image. APPC allows up to 500 local LUs to be defined in the configuration per z/OS image. Of those 500 local LUs, 200 can be defined to be associated with a transaction scheduler (by specifying SCHED parameter on the LUADD definition).

In the message text:

*luname* The name of the logical unit which is denied to be added to the APPC configuration.

**System action:** The system continues processing, but the LU is not added to the APPC configuration.

**Operator response:** Notify the system programmer.

**System programmer response:** Determine why 200 scheduler-based LUs are defined in the current APPC configuration. If possible, delete some of these scheduler-based LUs in the configuration that are no longer needed and then try the LUADD request again.

**Source:** APPC/MVS

**Detecting Module:** ATBLUAD

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB073I    LOGICAL UNIT *luname* NOT ADDED TO THE APPC CONFIGURATION BECAUSE THE MAXIMUM NUMBER OF TOTAL LOCAL LUS HAS BEEN REACHED.**

**Explanation:** The installation has reached the maximum number of local LUs that can be defined on this z/OS image. APPC allows up to 500 local LUs to be defined in the configuration per z/OS image.

In the message text:

*luname* The name of the logical unit which is denied to be added to the APPC configuration.

**System action:** The system continues processing, but the LU is not added to the APPC configuration.

**Operator response:** Notify the system programmer.

**System programmer response:** Determine why 500 LUs are defined in the current APPC configuration. If possible, delete some LUs in the configuration that are no longer needed and then try the LUADD request again.

**Source:** APPC/MVS

**Detecting Module:** ATBLUAD

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB075I    APPC COMPONENT TRACE IS UNAVAILABLE. REASON= xxxxxxxx.**

**Explanation:** Due to errors in the Advanced Program-to-Program Communication (APPC) component trace initialization process, APPC component trace is unavailable until the next time APPC is started.

In the message text:

xxxxxxxxx The failure reason code.

**System action:** APPC operates without component tracing.

**Operator response:** Report this message to the system programmer.

**System programmer response:** An internal error occurred. If you need to activate APPC component tracing, stop and restart APPC and then enter the APPC component trace command.

If the problem recurs, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Detecting Module:** ATBCTIT, ATBCTCL

**Routing Code:** 2

**Descriptor Code:** 4

**ATB076I option IS NOT A VALID TRACE OPTION.**

**Explanation:** The operator entered an incorrect APPC component trace option.

In the message text:

*option* The incorrect trace option is a string of up to ten characters.

**System action:** The system does not start APPC component trace.

**Operator response:** Restart the trace with valid options. See *z/OS MVS Diagnosis: Reference* for more information.

**Source:** APPC/MVS

**Detecting Module:** ATBCTSM

**Routing Code:** 2

**Descriptor Code:** 5

**ATB077I APPC COMPONENT TRACE CANNOT START YET.**

**Explanation:** The operator entered the TRACE CT command to start APPC component tracing, but the system cannot start the trace because a previous trace is still in progress.

**System action:** The system issues a message to notify the operator when the previous trace dump has completed.

**Operator response:** Wait for the previous APPC component trace to complete, and then restart the trace.

**Source:** APPC/MVS

**Detecting Module:** ATBCTSM

**Routing Code:** 2

**Descriptor Code:** 5

**ATB078I THE DUMP FOR APPC COMPONENT TRACE FAILED. REASON=xxxxxxxx.**

**Explanation:** Advanced Program-to-Program Communication (APPC) component trace encountered an error and ended before the trace data was dumped.

In the message text:

xxxxxxxx The failure reason code, which is one of the following:

**Reason Code      Explanation**

**61000001** The SDUMPX macro returns a zero return code, but the asynchronous part of the dump failed.

**61000002** The SDUMPX macro returns a nonzero return code.

**System action:** APPC component trace processing

ends. The system issues message ATB178I

**Operator response:** Report this message to the system programmer.

**System programmer response:** See message ATB178I, which is issued to hard copy.

**Source:** APPC/MVS

**Detecting Module:** ATBCTCL

**Routing Code:** 2

**Descriptor Code:** 4

**ATB079I APPC COMPONENT TRACE START OR STOP FAILED. REASON=xxxxxxxx.**

**Explanation:** Advanced Program-to-Program Communication (APPC) component trace failed while processing a TRACE CT command to turn tracing on or off.

In the message text:

xxxxxxxx The failure reason code.

**System action:** The system ends APPC component tracing. Some trace data may be lost.

**Operator response:** Report this message to the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Detecting Module:** ATBCTSM

**Routing Code:** 2

**Descriptor Code:** 4

**ATB080I SYNTAX ERROR WITH THE OPTION USERID.**

**Explanation:** The system encountered a syntax error in the tracing options specified for Advanced Program-to-Program Communication (APPC) component tracing. The syntax errors follow the USERID option.

**System action:** The system does not start APPC component trace.

**System programmer response:** Correct the options on either the TRACE CT command or in the parmlib member and start the trace again.

**Detecting Module:** ATBCTSM

**Routing Code:** 2

**Descriptor Code:** 5

**ATB082I A USERID SPECIFIED IS NOT VALID.**

**Explanation:** The system encountered a syntax error in the tracing options specified for Advanced Program-to-Program Communication (APPC) component tracing. A string found after the USERID option and before the closing right parenthesis is not valid. It contains either more than eight characters or unacceptable characters.

**System action:** The system does not start APPC component trace.

**System programmer response:** Correct the options on either the TRACE CT command or in the parmlib member and start the trace again.

**Source:** APPC/MVS

**Detecting Module:** ATBCTSM

**Routing Code:** 2

**Descriptor Code:** 5

**ATB083I THE NUMBER OF USERIDS SPECIFIED EXCEEDS THE MAXIMUM OF 9.**

**Explanation:** The system encountered a syntax error in the tracing options specified for Advanced Program-to-Program Communication (APPC) component tracing. The number of strings specified on the USERID option exceeded the maximum of nine.

**System action:** The system does not start APPC component trace.

**System programmer response:** Correct the options on either the TRACE CT command or in the parmlib member and start the trace again.

**Source:** APPC/MVS

**Detecting Module:** ATBCTSM

**Routing Code:** 2

**Descriptor Code:** 5

**ATB100I hh.mm.ss APPC DISPLAY [id]**

**Explanation:** In the message, the following appears:

ALLOCATE QUEUES	SERVERS	QUEUED ALLOCATES
ttttt	sssss	qqqqq

```
[STPN=stpname]~X'hh'ccc
LLUN=luname    PLUN=pluname    USERID=userid
PROFILE=profile    REGTIME=mm/dd/yyyy hh:mm:ss    QUEUED=qqqqq
OLDEST=ttttttt    LAST RCVD=ttttttt    TOT ALLOCS=nnnnnnnn
SERVERS=sssss    KEEP TIME=tttt    TIME LEFT=tttt
[ ASNAME=asname
ASID=asid    REGTIME=mm/dd/yyyy hh:mm:ss    TOT RCVD=nnnnnnnn
RCVA ISS=hh:mm:ss    RCVA RET=hh:mm:ss]]
```

The operator entered the DISPLAY APPC, SERVER command to display information about allocate queues and their servers.

The first three lines of the message always appear.

In the first three lines of the message text:

**hh.mm.ss**

The hour, minute, and second at which the system processed the DISPLAY command.

**id** A decimal identifier used with the CONTROL C,D command to cancel status displays that are written on printer consoles or displayed inline on a console. This identifier does not appear when the display appears in a display area on a console.

**nnnnn** The number of allocate queues. This number is equal to the total number of unique Register\_for\_Allocate calls that are currently in effect.

**sssss** The total number of APPC/MVS servers. These servers are address spaces that are currently registered to serve inbound allocate requests.

**qqqqq** The total number of inbound allocates currently queued on allocate queues.

If the command includes the LIST parameter, lines 4 through 8 appear for each allocate queue that is currently active, or that is selected by optional keyword parameters.

In lines 4 through 8 of the message text:

**STPN=stpname]~X'hh'ccc**

The served TP name. It is 1 to 64 characters long.

**stpname**

The served TP name. *stpname* is a string 1 to 64 characters long.

**~X'hh'ccc**

The system network architecture (SNA) service TP name:

**hh** The first character of the SNA service TP name, in hexadecimal. This character is non-displayable in non-hexadecimal form.

**ccc** A character string, with a maximum length of 3.

**LLUN=luname**

The name of the logical unit (LU) at which the APPC/MVS server resides.

**PLUN=pluname**

The name of the LU from which the allocate request originated. A value of \* indicates that allocate requests from any partner LU are accepted.

**USERID=userid**

The userid that flowed in with the allocate request. A value of \* indicates that allocate requests from any userid are accepted.

**PROFILE=profile**

The name of the security profile from which inbound allocates are to be accepted. A value of \* indicates that allocate requests with any profile are to be accepted.

**REGTIME=mm/dd/yyyy hh:mm:ss**

The time at which the Register\_for\_Allocates call that created the allocate queue was processed. *mm/dd/yyyy* represents the month, day, and year. *hh:mm:ss* represents the hour, minute, and second, based on the time of day (TOD) clock.

**QUEUED=nnnnn**

The number of inbound allocates currently residing on the queue.

**OLDEST=nnnnnnnn**

The amount of time that the oldest inbound allocate has been on the allocate queue. Depending on the amount of time, *ttttttt* has one of the following formats:

**sss.ttt S** The time is less than 1000 seconds.

**hh.mm.ss** The time is at least 1000 seconds, but less than 100 hours.

**hhhhhh.mm** The time is at least 100 hours.

**\*\*\*\*\*** The time is greater than 99999 hours.

**\*NONE\*** There are no allocate requests on the allocate queue.

In the variable text:

**ttt** The number of milliseconds.

**sss or ss** The number of seconds.

**mm** The number of minutes.

**hh or hhhh** The number of hours.

**LAST RCVD=ttttttt**

The amount of time since an inbound allocate was last received (and thus removed from the allocate queue) through the Receive\_Allocate service. Depending on the amount of time, *ttttttt* has one of the following formats:

**sss.ttt S** The time is less than 1000 seconds.

**hh.mm.ss** The time is at least 1000 seconds, but less than 100 hours.

**hhhhhh.mm** The time is at least 100 hours.

\*\*\*\*\*

The time is greater than 99999 hours.

**\*NONE\***

No inbound allocates have been received from the queue.

In the variable text:

**ttt** The number of milliseconds.

**sss or ss** The number of seconds.

**mm** The number of minutes.

**hh or hhhh** The number of hours.

**TOT ALLOCS=nnnnnnnn**

This is the number of allocate requests waiting to be received from the allocate queue, plus the number of allocate requests that have already been received.

**SERVERS=nnnnn**

The number of servers processing requests on the allocate queue.

**KEEP TIME=nnnn.**

The amount of time, in seconds, that the allocate queue is to remain active after all of its servers unregister (as specified through the Set\_Allocate\_Queue\_Attributes service).

**TIME LEFT=nnnn.**

The amount of time, in seconds, remaining before the allocate queue will be purged. This field is only valid when there are no servers processing the served TP (that is, SERVERS=0). When SERVERS does not equal zero, TIME LEFT contains a value of \*N/A\*.

If the DISPLAY APPC,SERVER command includes the ALL parameter, the following lines appear in the message text:

- One occurrence of lines 4 through 8 for all active allocate queues, or a subset of active allocate queues that is selected by optional keyword parameters.
- For each queue:
  - One occurrence of lines 9 through 11 for each address space serving the queue.

In lines 9 through 11 of the message text:

**ASNAME=asname**

The address space name of the server. This field will contain \*UNKNOWN\* if the address space name cannot be determined.

**ASID=asid**

The address space identifier (ASID) of the server. This field is set to \*UNKNOWN\* if the ASID cannot be determined.

## ATB101I

**REGTIME=mm/dd/yyyy hh:mm:ss**

The time at which the last Register\_For\_Allocates service was processed for this server. *mm/dd/yyyy* represents the month, day, and year. *hh:mm:ss* represents the hour, minute, and second, based on the time of day (TOD) clock.

**TOT RCVD=nnnnnnnn**

Total number of allocates that the server has received from the allocate queue during the current IPL.

**RCVA ISS=hh:mm:ss**

The time (hour, minute, and second) at which the server last issued the Receive\_Allocate service. This time is based on the time of day (TOD) clock. A value of \*NONE\* indicates that the server has not yet issued the Receive\_Allocate service.

**RCVA RET=hh:mm:ss**

The time (hour, minute, and second) at which the Receive\_Allocate service last returned to the caller (after attempting to return an allocate request). This time is based on the time of day (TOD) clock.

The Receive\_Allocate call might or might not have returned an allocate request to the caller. A value of \*NONE\* indicates that no allocate requests have yet been returned.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB101I hh.mm.ss APPC DISPLAY [id]**

**Explanation:** In the message, the following appears:

```
ACTIVE LU'S      OUTBOUND LU'S      PENDING LU'S      TERMINATING LU'S
aaaa          ooooo       ppppp       ttttt
SIDEINFO=side_dsetname
[LLUN=uname    SCHED=schdname     BASE=xxx
 STATUS=stat    PARTNERS=nnnn     TPLEVEL=tplevel
 TPDATA=dsetname
[ PLUN=luname
```

The operator entered a DISPLAY APPC,LU command to display information about local and partner LUs.

The first four lines of the message always appear.

**In the first four lines of the message text:**

**hh.mm.ss**

The hour, minute, and second at which the system processed the DISPLAY command. **00.00.00** appears in this field if the time-of-day (TOD) clock is not working.

**id** A decimal identifier used with the CONTROL C,D command to cancel status displays that

are written on typewriter or printer consoles or displayed inline on a display console. This identifier does not appear when the display is presented in a display area on a display console.

**ACTIVE LU'S nnnn**

The number of APPC/MVS logical units (LU) with ACTIVE status. An LU is active when it is fully initialized and capable of processing both inbound and outbound requests.

**OUTBOUND LU'S nnnn**

The number of APPC/MVS LUs with OUTBOUND status. An LU is OUTBOUND when the transaction scheduler that owns the LU halts all transaction requests to the LU.

**PENDING LU'S nnnn**

The number of APPC/MVS LUs with PENDING status. An LU is pending when the system is initializing the LU.

**TERMINATING LU'S nnnn**

The number of APPC/MVS LUs with TERMINATING status. A logical unit is ending when a SET command removes it from the system and the system allows active conversations on the LUs sessions to complete.

**SIDEINFO=side\_dsetname**

The name of the currently active side information file. The side information file is a Virtual Storage Access Method (VSAM) key sequenced data set containing the side information. If no side information file was specified in the APPCPMxx parmlib member this value will be \*NONE\*.

**Lines 5-7 of the message text:**

Lines 5-7 appear in the message text if the DISPLAY APPC,LU command includes the LIST parameter. Lines 5-7 are repeated for each local LU that is defined to APPC/MVS or selected by optional keyword parameters.

**LLUN=luname**

The local logical unit name.

**SCHED=schdname**

The name of the APPC/MVS transaction scheduler that schedules transactions for this LU. It is specified on the SCHED keyword in the current parmlib configuration. If there is no scheduler associated with the LU (because the NOSCHED option was specified for the LU in the APPCPMxx parmlib member), this value is \*NONE\*.

**BASE=xxx**

xxx is one of the following:

**YES** The logical unit is a base logical unit.

**NO** The logical unit is not the base logical unit.

**STATUS=stat**

The status of the logical unit, which is one of the following:

**ACTIVE** The logical unit is active.

**OUTBOUND** The logical unit is outbound.

**PENDING** The logical unit is pending.

**TERMINATING** The logical unit is ending.

**PARTNERS=nnnnn**

The number of LUs for which session limits are established with LU *luname*. The maximum value is 99999.

**TPLEVEL=tplevl**

The transaction program (TP) level specified in parmlib for this LU, which is one of the following:

**SYSTEM**

The TP is available to all users defined to LU *unitname*. This is the default level.

**GROUP**

The TP is available to a group defined to LU *unitname*.

**USER** The TP is available to an individual user defined to LU *unitname*.

**TPDATA=dsetname**

A 1 to 44 character name for a data set that contains the TP profile for LU *luname*.

**Line 8 of the message text:**

Line 8 appears if the DISPLAY APPC,LU command includes the ALL parameter. Line 8 appears once for either:

- Each partner LU for which session limits are established with LU *unitname*
- The partner LUs specified on the PLUN keyword

**PLUN=luname**

The partner LU name.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** 2

**Descriptor Code:** 5

```
[PTPN=tppname|X'hh'ccc  
PLUN=luname USERID=userid DIRECTION=dir  
VERBS=verbs IT=nnnnnnnn LCID=lcid  
MODE=mode VTAMCID=cid]
```

The operator entered the DISPLAY APPC,TP command to display information about local transaction programs (TPs) and their conversations.

The first three lines of the message always appear.

In the first three lines of the message text:

*hh.mm.ss*

The hour, minute, and second at which the system processed the DISPLAY command. **00.00.00** appears in this field if the time of day (TOD) clock is not working.

*id*

A decimal identifier used with the CONTROL C,D command to cancel status displays that are written on typewriter or printer consoles or displayed inline on a display console. This identifier does not appear when the display appears in a display area on a display console.

**LOCAL TP'S nnnnn**

The number of APPC/MVS TPs that the system is currently processing, or that were selected by optional keyword parameters. This value includes the number of TPs that are being processed by APPC/MVS servers (served TPs) and TPs that have been scheduled by APPC/MVS transaction schedulers. This later group of TPs is called scheduled TPs.

**INBOUND CONVERSATIONS nnnnn**

The number of inbound conversations that are currently allocated, or that were selected by optional keyword parameters.

**OUTBOUND CONVERSATIONS nnnnn**

The number of outbound conversations currently allocated, or that are selected by optional keyword parameters.

**Note:** If the partner TP is another local APPC/MVS TP, the conversation is considered local. Unless one or both ends of a local conversation are suppressed from the display by keyword filter parameters, the system displays all local conversations twice, as follows:

- The TP that did the allocate is shown as the local TP. The allocated TP is shown as the partner.
- The allocated TP is shown as the local TP. The TP that did the allocate is shown as the partner.

If the command includes the LIST parameter, lines 4 through 6 appear for each local TP that is currently active, or a subset of these TPs, depending on whether the operator specified one or more optional filter keyword parameters on the command.

---

**ATB102I hh.mm.ss APPC DISPLAY [id]**

**Explanation:** In the message, the following appears:

```
LOCAL TP'S      INBOUND CONVERSATIONS    OUTBOUND CONVERSATIONS  
ttttt       ccccc      oooooo  
[LTPN=tppname|X'hh'ccc | STPN=tppname|X'hh'ccc  
LLUN=luname   WUID=workid   CONVERSATIONS=mmmmm   ASID=asid  
SCHED=schdname ASNAME=adspname   TPID=tpid]
```

## ATB102I

The TPs are grouped by address space, with lines 4 through 6 repeated for each local TP running in an address space. Information about TPs processed by APPC/MVS servers (served TPs) is separate from information about TPs scheduled by an APPC/MVS transaction scheduler.

Lines 4-6 appear first for a local scheduled TP, if one is running in the address space. The LTPN= variable indicates local scheduled TPs. Lines 4 through 6 appear for each served TP running in an address space, if any. The STPN= variable indicates local served TPs.

An address space can contain, at most, one local inbound scheduled TP, together with TP. An address space can, however, contain any number of served local TPs.

In lines 4 through 6 of the message text:

**LTPN=tnameIX'hh'ccc** or **STPN=tnameIX'hh'ccc**  
In the message text:

*tname* The local TP name. If the TP is scheduled by a transaction scheduler, LTPN= precedes the name. If the TP is served by an APPC/MVS server, STPN= precedes the name. The TP name is 1 to 64 characters long.

**-X'hh'ccc**

The systems network architecture (SNA) service TP name. In the variable text:

*hh* The first character of the SNA service TP name, in hexadecimal. This character is non-displayable.  
*ccc* A character string, with a maximum length of 3.

For outbound conversations, **\*UNKNOWN\*** appears in this field.

**LLUN=luname**

The logical unit (LU) name.

**WUID=workid**

The work unit identifier, which the transaction scheduler assigns to a program instance using the Unit\_of\_Work\_ID. The value in this field is **\*UNKNOWN\*** if:

- The transaction scheduler does not use the associate service
- The transaction scheduler does not use the Unit\_of\_Work\_ID parameter on the associate service
- The TP is not scheduled by a transaction scheduler

**CONVERSATIONS=nnnnn**

The number of conversations in which the TP is involved. The maximum value is 99999.

**ASID=asid**

The address space identifier (ASID) to which the TP is associated.

**SCHED=schdname**

The name of the transaction scheduler that scheduled the TP. It is the value of a SCHED keyword in the APPCPMxx parmlib member. If the TP is a batch job, started task, or TSO/E user, or if the TP is running under an LU that is not associated with a transaction scheduler (NOSCHED LU), **\*NONE\*** appears in this field.

**ASNAME=adspname**

The name of the address space with which the TP is currently associated. If the local TP is running as a batch job, the job name appears in this field. If the local TP is running under TSO/E, the TSO/E userid appears in this field. If the local TP is running in a transaction initiator, a value from the TP profile appears in this field.

**TPID=tpid**

The TP identifier. It is a 16-digit hexadecimal value. The field (including TPID=) does not appear for served TPs.

If the DISPLAY APPC,TP command includes the ALL parameter, the following lines appear in the message text:

- Lines 4 through 6
- One occurrence of lines 7 through 10 for each conversation in which the local transaction program is involved.

In lines 7 through 10 of the message text:

**PTPN=tnameIX'hh'ccc**

In the message text:

*tname* The partner TP name. It is 1 to 64 characters long. For inbound conversations, **\*UNKNOWN\*** appears in this field.

**-X'hh'ccc**

The systems network architecture (SNA) service TP name. In the variable text:

*hh* The first character of the SNA service TP name, in hexadecimal. This character is non-displayable.  
*ccc* A character string, with a maximum length of 3.

	For inbound conversations, *UNKNOWN* appears in this field.
<b>PLUN=uname</b>	The partner LU name.
<b>USERID=userid</b>	The userid that flowed into or out of APPC/MVS on an ALLOCATE request for this conversation. For an inbound conversation, it is the userid of the local system TP. For an outbound conversation, it is the userid of the partner TP. If a userid was not specified, *NONE* appears in this field.
<b>DIRECTION=dir</b>	The direction of the conversation, which is one of the following:
<b>INBOUND</b>	The conversation is inbound. It was allocated by the partner TP.
<b>OUTBOUND</b>	The conversation is outbound. It was allocated by the local TP.
<b>VERBS=nnnnnnnn</b>	The number of APPC callable services issued by the local TP on this conversation. The maximum value is 99999999.
<b>IT=nnnnnnnn</b>	The amount of time that the local TP has been waiting for data or a confirmation from the partner TP. Depending on the amount of time, nnnnnnnn has one of the following formats:
<b>sss.ttt S</b>	The time is less than 1000 seconds.
<b>hh.mm.ss</b>	The time is at least 1000 seconds, but less than 100 hours.
<b>hhhhhh.mm</b>	The time is at least 100 hours.
<b>*****</b>	The time is greater than 99999 hours.
<b>NOTAVAIL</b>	The time-of-day (TOD) clock is not working
<b>*NONE*</b>	The local TP is not waiting for data or a confirmation.
In the variable text:	
<b>ttt</b>	The number of milliseconds.
<b>sss or ss</b>	The number of seconds.
<b>mm</b>	The number of minutes.
<b>hh or hhhh</b>	The number of hours.
<b>LCID=lcid</b>	The local conversation identifier. It is an 8-digit

hexadecimal value. For a Virtual Telecommunications Access Method (VTAM) conversation, \*NONE\* appears in this field.

**MODE=modename**  
The mode used by the conversation.

**VTAMCID=cid**  
The VTAM conversation identifier. For a VTAM conversation, this provides the link between APPC and VTAM. For a local conversation, \*NONE\* appears in this field. It is an 8-digit hexadecimal value.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5M

#### ATB103I hh.mm.ss APPC DISPLAY [id]

**Explanation:** In the message, the following appears:

```
ALLOCATE QUEUES          SERVERS          QUEUED ALLOCATES
ttttt                   sssss           qqqqq
[STPN=stpname|X'hh'ccc
 LLUN=uname   PLUN=pluname   USERID=userid
 PROFILE=profile   REGTIME=mm/dd/yy hh:mm:ss   QUEUED=qqqqq
 OLDEST=ttttttt   LAST RCVD=ttttttt   TOT ALLOCS=nnnnnnnn
 SERVERS=sssss   KEEP TIME=tttt   TIME LEFT=tttt
 [ ASNAME=asname
   ASID=asid   REGTIME=mm/dd/yy hh:mm:ss   TOT RCVD=nnnnnnnn
   RCVA ISS=hh:mm:ss   RCVA RET=hh:mm:ss]]
```

The operator entered the DISPLAY APPC,SERVER command to display information about allocate queues and their servers.

The first three lines of the message always appear.

In the first three lines of the message text:

**hh.mm.ss**      The hour, minute, and second at which the system processed the DISPLAY command.

**id**      A decimal identifier used with the CONTROL C,D command to cancel status displays that are written on printer consoles or displayed inline on a console. This identifier does not appear when the display appears in a display area on a console.

**Under ALLOCATE QUEUES: ttttt**

The number of allocate queues. This number is equal to the total number of unique Register\_for\_Allocate calls that are currently in effect.

**Under SERVERS: nnnnn**

The total number of APPC/MVS servers. These servers are address spaces that are currently registered to serve inbound allocate requests.

**Under QUEUED ALLOCATES:** *nnnnn*

The total number of inbound allocates currently queued on allocate queues.

If the command includes the LIST parameter, lines 4 through 8 appear for each allocate queue that is currently active, or that is selected by optional keyword parameters.

In lines 4 through 8 of the message text:

**STPN=*stpname*-X'hh'ccc**

The served TP name. It is 1 to 64 characters long.

*stpname*

The served TP name. *stpname* is a string 1 to 64 characters long.

## -X'hh'ccc

The system network architecture (SNA) service TP name:

*hh* The first character of the SNA service TP name, in hexadecimal. This character is non-displayable in non-hexadecimal form.

*ccc* A character string, with a maximum length of 3.

**LLUN=*lname***

The name of the logical unit (LU) at which the APPC/MVS server resides.

**PLUN=*pluname***

The name of the LU from which the allocate request originated. A value of \* indicates that allocate requests from any partner LU are accepted.

**USERID=*userid***

The userid that flowed in with the allocate request. A value of \* indicates that allocate requests from any userid are accepted.

**PROFILE=*profile***

The name of the security profile from which inbound allocates are to be accepted. A value of \* indicates that allocate requests with any profile are to be accepted.

**REGTIME=*mm/dd/yy hh:mm:ss***

The time at which the Register\_for\_Allocates call that created the allocate queue was processed. *mm/dd/yy* represents the month, day, and year. *hh:mm:ss* represents the hour, minute, and second, based on the time of day (TOD) clock.

**QUEUED=*nnnnn***

The number of inbound allocates currently residing on the queue.

**OLDEST=*nnnnnnnn***

The amount of time that the oldest inbound allocate has been on the allocate queue. Depending on the amount of time, *ttttttt* has one of the following formats:

*sss.ttt S* The time is less than 1000 seconds.

*hh.mm.ss* The time is at least 1000 seconds, but less than 100 hours.

*hhhhhh.mm* The time is at least 100 hours.

\*\*\*\*\* The time is greater than 99999 hours.

\*NONE\* There are no allocate requests on the allocate queue.

In the variable text:

*ttt* The number of milliseconds.

*sss* or *ss* The number of seconds.

*mm* The number of minutes.

*hh* or *hhhh* The number of hours.

**LAST RCVD=*ttttttt***

The amount of time since an inbound allocate was last received (and thus removed from the allocate queue) through the Receive\_Allocate service. Depending on the amount of time, *ttttttt* has one of the following formats:

*sss.ttt S* The time is less than 1000 seconds.

*hh.mm.ss* The time is at least 1000 seconds, but less than 100 hours.

*hhhhhh.mm* The time is at least 100 hours.

\*\*\*\*\* The time is greater than 99999 hours.

\*NONE\* No inbound allocates have been received from the queue.

In the variable text:

*ttt* The number of milliseconds.

*sss* or *ss* The number of seconds.

*mm* The number of minutes.

*hh* or *hhhh* The number of hours.

**TOT ALLOCS=*nnnnnnnn***

This is the number of allocate requests waiting

to be received from the allocate queue, plus the number of allocate requests that have already been received.

**SERVERS=nnnnn**

The number of servers processing requests on the allocate queue.

**KEEP TIME=nnnn.**

The amount of time, in seconds, that the allocate queue is to remain active after all of its servers unregister (as specified through the Set\_Allocate\_Queue\_Attributes service).

**TIME LEFT=nnnn.**

The amount of time, in seconds, remaining before the allocate queue will be purged. This field is only valid when there are no servers processing the served TP (that is, SERVERS=0). When SERVERS does not equal zero, TIME LEFT contains a value of \*N/A\*.

If the DISPLAY APPC,SERVER command includes the ALL parameter, the following lines appear in the message text:

- One occurrence of lines 4 through 8 for all active allocate queues, or a subset of active allocate queues that is selected by optional keyword parameters.
- For each queue:
  - One occurrence of lines 9 through 11 for each address space serving the queue.

In lines 9 through 11 of the message text:

**ASNAME=asname**

The address space name of the server. This field will contain \*UNKNOWN\* if the address space name cannot be determined.

**ASID=asid**

The address space identifier (ASID) of the server. This field is set to \*UNKNOWN\* if the ASID cannot be determined.

**REGTIME=mm/dd/yy hh:mm:ss**

The time at which the last Register\_For\_Allocates service was processed for this server. mm/dd/yy represents the month, day, and year. hh:mm:ss represents the hour, minute, and second, based on the time of day (TOD) clock.

**TOT RCVD=nnnnnnnn**

Total number of allocates that the server has received from the allocate queue during the current IPL.

**RCVA ISS=hh:mm:ss**

The time (hour, minute, and second) at which the server last issued the Receive\_Allocate service. This time is based on the time of day (TOD) clock. A value of \*NONE\* indicates that

the server has not yet issued the Receive\_Allocate service.

**RCVA RET=hh:mm:ss**

The time (hour, minute, and second) at which the Receive\_Allocate service last returned to the caller (after attempting to return an allocate request). This time is based on the time of day (TOD) clock.

The Receive\_Allocate call might or might not have returned an allocate request to the caller. A value of \*NONE\* indicates that no allocate requests have yet been returned.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** 2

**Descriptor Code:** 5

**ATB104I hh.mm.ss APPC DISPLAY [id]**

**Explanation:** In the message, the following appears:

```
APPC UR'S EXPRESSIONS OF INTEREST LOGSTREAM NAME
  tttt      eeeee   logstreamname
  [URID=urid]
  EXPRESSION OF INTEREST COUNT=cnt  SYNC POINT IN PROG=sss
  LUWID=luwid]
  [LTPN=tppname|X'hh'ccc
  PTPN=tppname|X'hh'ccc
  CONV CORRELATOR=c cid
  LLUN=luname    PLUN=pluname    DIRECTION=dir
  RESYNC REQUIRED=r rr IMPLIED FORGET=fff]
```

When the operator enters the DISPLAY APPC,UR command, this message displays information that APPC/MVS has about local units of recovery (URs) and APPC/MVS expressions of interest in these URs. The information is displayed with conversation information, such as local and partner LU names, protected LUWIDs, conversation correlators, and local and remote TP names.

The first three lines of the message always appear.

In the first three lines of the message text:

*hh.mm.ss*

The hour, minute, and second at which the DISPLAY command was processed.

*id*

A decimal identifier used with the CONTROL C,D command to cancel status displays that are written on typewriter or printer consoles or displayed inline on a display console. This identifier does not appear when the display appears in a display area on a display console.

**APPC UR'S tttt**

The number of URs that have at least one expression of recoverable interest from APPC/MVS that meets all the specified optional selection parameters. *tttt* is displayed as a decimal integer.

**EXPRESSIONS OF INTEREST *eeeeee***

The number of expressions of recoverable interest from APPC/MVS that meet all the specified optional selection parameters. *eeeeee* is displayed as a decimal integer.

**LOGSTREAM NAME *logstream\_name***

The log stream name APPC uses to store information related to partner LUs that APPC has established sync-level syncpoint conversations with. If LOGGING=RRSGNAME was specified in the APPC started procedure, and if RRS is not active, then a value of \*UNKNOWN\* will be displayed. See *z/OS MVS Planning: APPC/MVS Management*, SA22-7599 for further information regarding the naming of APPC log streams.

If the command includes the LIST parameter, lines 4 through 6 appear for each UR included in the summary.

In lines 4 through 6 of the message text:

**URID=*urid***

The URID is the RRS unit of recovery identifier (in hexadecimal)

You can use this URID with the LUWID also displayed by this message to correlate information when using the RRS ISPF panels. For more information on the RRS ISPF panel interface, see *z/OS MVS Programming: Resource Recovery*.

**EXPRESSION OF INTEREST COUNT=*num***

The number of APPC/MVS expressions of recoverable interest in this unit of recovery that meet all the specified optional selection parameters. *num* is displayed as a decimal integer.

**SYNC POINT IN PROG=*sss***

*sss* is one of the following:

- YES** A syncpoint verb (Commit or Backout) is in progress for the unit of recovery.
- NO** There is no syncpoint verb in progress for the unit of recovery.

**LUWID=*luwid***

The protected logical unit of work ID (LUWID) for this unit of recovery. You can use this LUWID with the URID also displayed by this message to correlate information when using the RRS ISPF panels. For more information on the RRS ISPF panel interface, see *z/OS MVS Programming: Resource Recovery*.

If the DISPLAY APPC,UR command includes the ALL parameter, the following lines appear in the message text:

- One occurrence of lines 4 through 6, for each unit of recovery for which APPC/MVS has at least one

expression of recoverable interest that meets all the specified optional selection parameters.

- One occurrence of lines 7 through 10, for each APPC/MVS expression of recoverable interest that meets all the specified optional selection parameters.

The expressions of interest are grouped together by unit of recovery.

In lines 7 through 11 of the message text:

**LTPN=*tpname*X'hh'ccc**

In the message text:

*tpname* The local TP name. It is 1 to 64 characters long. If there is no inbound conversation or the TP name cannot be determined, \*UNKNOWN\* appears in this field.

**-X'hh'ccc**

The SNA service TP name. In the variable text:

*hh* The first character of the SNA service TP name, in hexadecimal. This character is non-displayable in non-hexadecimal form.

*ccc* A character string, with a maximum length of 3.

If there is no inbound conversation to the TP, \*UNKNOWN\* appears in this field.

**PTPN=*tpname*X'hh'ccc**

In the message text:

*tpname* The partner TP name. It is 1 to 64 characters long. For inbound conversations, \*UNKNOWN\* appears in this field.

**X'hh'ccc**

The SNA service TP name. In the variable text:

*hh* The first character of the SNA service TP name, in hexadecimal. This character is non-displayable in non-hexadecimal form.

*ccc* A character string, with a maximum length of 3.

\*UNKNOWN\* appears in this field when either:

- The conversation is inbound, or
- The TP name cannot be determined

**CONV CORRELATOR=*ccid***

The conversation correlator of the conversation

for which APPC expressed interest. *ccid* is displayed in character representation of hexadecimal digits.

**Note:** A conversation correlator is unique among all the conversation correlators created by a particular LU. All conversation correlators are created by the LU that initiates the conversation allocation.

**LLUN=***luname*

The 8-byte network LU name of the local LU. *luname* is displayed as character data.

**PLUN=***pluname*

The network-qualified name of the partner LU, if its network ID is known. *pluname* is displayed as character data.

**DIRECTION=***dir*

The direction of the conversation, which is one of the following:

<b>INBOUND</b>	The conversation is inbound. It was allocated by the partner TP.
<b>OUTBOUND</b>	The conversation is outbound. It was allocated by the local TP.
<b>*UNKNOWN*</b>	The conversation direction is either not applicable or not available.

**RESYNC REQUIRED=***rrr*

*rrr* is one of the following:

<b>YES</b>	Resynchronization is required for the unit of recovery because of a protected conversation failure. Resynchronization is required to achieve a state of consistency.
<b>NO</b>	Resynchronization is not required for the unit of recovery.

**IMPLIED FORGET=***fff*

*fff* is one of the following:

<b>YES</b>	Indicates an implied-forget condition. Before it can complete, the unit of recovery requires the receipt of a network flow as notification that the syncpoint initiator has received the last message about the expression of interest.
<b>NO</b>	Indicates there is no implied-forget condition.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB105I DISPLAY APPC SYNTAX ERROR.  
UNEXPECTED END OF COMMAND:  
*error***

**Explanation:** In the DISPLAY APPC command, the system found a blank space where operands were expected.

In the message text:

*error* The 20-character string preceding the blank space.

**System action:** The system does not run the command.

**Operator response:** Remove any unnecessary blank spaces that are embedded in the text of the command. Enter the command again.

**Source:** APPC/MVS

**Detecting Module:** ATBCODI

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB106I DISPLAY APPC SYNTAX ERROR.  
INVALID PARAMETER: *error***

**Explanation:** In the DISPLAY APPC command, a parameter is not valid.

In the message text:

*error* A 20-character string starting with the parameter in *error*.

**System action:** The system rejects the command.

**Operator response:** Enter the command again, using a valid parameter. See *z/OS MVS Programming: Writing Transaction Programs for APPC/MVS* for a list of valid parameters.

**Source:** APPC/MVS

**Detecting Module:** ATBCODI

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB107I DISPLAY APPC SYNTAX ERROR.  
INVALID DELIMITER AFTER  
PARAMETER: *error***

**Explanation:** In the DISPLAY APPC command, the system found an incorrect delimiter. For the DISPLAY ASCH command, delimiters are commas and equal signs.

In the message text:

## ATB108I • ATB112I

**error** A 20-character string starting with the parameter preceding the incorrect delimiter.

**System action:** The system does not run the command.

**Operator response:** Remove or replace the incorrect delimiter. Enter the command again.

**Source:** APPC/MVS

**Detecting Module:** ATBCODI

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB108I DISPLAY APPC SYNTAX ERROR.  
DUPLICATE KEYWORD PARAMETER:  
error**

**Explanation:** In the DISPLAY APPC command, the system found a duplicate keyword.

In the message text:

**error** A 20-character string starting with the second occurrence of the duplicate keyword parameter.

**System action:** The system rejects the command.

**Operator response:** Remove the duplicate keyword. Enter the command again.

**Source:** APPC/MVS

**Detecting Module:** ATBCODI

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB109I DISPLAY APPC SYNTAX ERROR.  
INVALID KEYWORD VALUE: error**

**Explanation:** In the DISPLAY APPC command, a keyword value was incorrect.

In the message text:

**error** A 20-character string starting with the keyword that contains the incorrect value.

**System action:** The system rejects the command.

**Operator response:** Enter the command again, specifying a correct keyword value.

**Source:** APPC/MVS

**Detecting Module:** ATBCODI

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB110I DISPLAY APPC UNAVAILABLE. APPC IS NOT ACTIVE.**

**Explanation:** The system cannot display the output requested by a DISPLAY APPC command because Advanced Program-to-Program Communication (APPC) is not active.

**System action:** The system continues processing.

**Operator response:** If APPC is required, enter a START APPC command to start APPC. Then, after the system issues message ATB007I to indicate that APPC is active, enter the DISPLAY APPC command again.

**Source:** APPC/MVS

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB111I DISPLAY APPC UNAVAILABLE. APPC IS STARTING.**

**Explanation:** The system cannot display the output requested by a DISPLAY APPC command because the system is initializing Advanced Program-to-Program Communication (APPC).

**System action:** The system continues APPC initialization. The system issues message ATB007I when APPC is initialized.

**Operator response:** Wait until the system issues ATB007I. Then enter the DISPLAY APPC command again.

**Source:** APPC/MVS

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB112I DISPLAY APPC UNAVAILABLE. APPC IS TERMINATING AND WILL AUTOMATICALLY RESTART.**

**Explanation:** Because an internal error occurred in Advanced Program-to-Program Communication (APPC), APPC is ending and will automatically begin re-initialization. The system cannot display the output requested by a DISPLAY APPC command.

**System action:** The system continues initializing APPC. The system issues message ATB007I when APPC is initialized.

**Operator response:** Wait until the system issues message ATB007I. Then enter the DISPLAY APPC command again.

**Source:** APPC/MVS

**Detecting Module:** ATBCODP

**Routing Code:** 2**Descriptor Code:** 5

---

**ATB113I DISPLAY APPC UNAVAILABLE. APPC IS TERMINATING.**

**Explanation:** Advanced Program-to-Program Communication (APPC) is ending because one of the following occurred:

- The operator entered the CANCEL or FORCE command.
- An internal error occurred in APPC.

The system cannot display the output requested by a DISPLAY APPC command.

**System action:** APPC end processing continues. The system issues message ATB002I when end processing is complete.

**Operator response:** Allow APPC to end. Then, if desired, restart APPC by entering a START APPC command.

**Source:** APPC/MVS

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB121I hh.mm.ss APPC DISPLAY [id]**

**Explanation:** In the message, the following appears:

```
ACTIVE LU'S    OUTBOUND LU'S    PENDING LU'S    TERMINATING LU'S
aaaa    oooooo    pppppp    tttttt
SIDEINFO=side_dsetname
[LLUN=luname    SCHED=schdname    BASE=xxx    NQN=xxx
 STATUS=stat    PARTNERS=nnnnn    TPLEVEL=tplvel    SYNCPT=sss
 GRNAME=grname    RMNAME=rmmame
TPDATA=dsetname
[ PLUN=pluname    ]]
```

When the operator enters a DISPLAY APPC,LU command, this message displays information about local and partner LUs.

The first four lines of the message always appear.

**In the first four lines of the message text:**

*hh.mm.ss*

The hour, minute, and second at which the display command was processed.

*id* A decimal identifier used with the CONTROL C,D command to cancel status displays that are written on typewriter or printer consoles or displayed inline on a display console. This identifier does not appear when the display is presented in a display area on a display console.

**ACTIVE LU'S *aaaa***

The number of APPC/MVS logical units (LU)

with ACTIVE status. An LU is active when it is fully initialized and capable of processing both inbound and outbound requests.

**OUTBOUND LU'S *ooooo***

The number of APPC/MVS LUs with OUTBOUND status. An LU is OUTBOUND when the transaction scheduler that owns the LU halts all transaction requests to the LU.

**PENDING LU'S *ppppp***

The number of APPC/MVS LUs with PENDING status. An LU is pending when the system is initializing the LU.

**TERMINATING LU'S *ttttt***

The number of APPC/MVS LUs with TERMINATING status. A logical unit is ending when a SET command removes it from the system and the system allows active conversations on the LUs sessions to complete.

**SIDEINFO=*side\_dsetname***

The name of the currently active side information file. The side information file is a Virtual Storage Access Method (VSAM) key sequenced data set containing the side information. If no side information file was specified in the APPCPMxx parmlib member this value will be \*NONE\*.

**Lines 5-8 of the message text:**

Lines 5-8 appear in the message text if the DISPLAY APPC,LU command includes the LIST parameter. Lines 5-8 are repeated for each local LU that is defined to APPC/MVS or selected by optional keyword parameters.

**LLUN=*luname***

The local logical unit name.

**SCHED=*schdname***

The name of the APPC/MVS transaction scheduler that schedules transactions for this LU. It is specified on the SCHED keyword in the current parmlib configuration. If there is no scheduler associated with the LU (that is, the NOSCHED option is specified in the parmlib configuration), this value will be \*NONE\*.

**BASE=xxx**

*xxx* is one of the following:

**YES** The logical unit is a base logical unit.

**NO** The logical unit is not the base logical unit.

**NQN=xxx**

*xxx* is one of the following:

**YES** Any Allocate request originating from this LU may specify a network-qualified partner LU name

where the LU name does not have to be unique across interconnected networks.

**NO** Any Allocate request originating from this LU must specify a partner LU name (network-qualified or not) where the LU name must be unique across interconnected networks.

**STATUS=stat**

The status of the logical unit, which is one of the following:

- ACTIVE** The logical unit is active.
- OUTBOUND** The logical unit is outbound.
- PENDING** The logical unit is pending.
- TERMINATING** The logical unit is ending.

**PARTNERS=nnnnn**

The number of LUs with at least one session bound to LU *lname*. The maximum value is 99999.

**TPLEVEL=tplev**

The transaction program (TP) level specified in parmlib for this LU, which is one of the following:

**SYSTEM**

The TP is available to all users defined to LU *lname*. This is the default level.

**GROUP**

The TP is available to a group defined to LU *lname*.

**USER**

The TP is available to an individual user defined to LU *lname*.

**SYNCPT=sss**

Specifies whether the local LU's resource manager exits are set with RRS and the LU is capable of supporting protected conversations (that is, conversations with a synchronization level of Syncpt). *sss* is one of the following:

**YES** The local LU is registered with RRS and is capable of supporting protected conversations.

**NO** The local LU either is not registered with RRS at the current time, or is not capable of supporting protected conversations because of one of the following:

- The VTAM APPL definition for the local LU does not specify SYNCLVL=SYNCPT and ATNLOSS=ALL
- The status of the local LU is pending
- RRS is not active.

- An internal APPC/MVS error caused the local LU to become unregistered as a resource manager.

**GRNAME=grname**

*grname* is the generic resource name with which the LU will register or has registered. The generic resource name identifies a set of LUs that provide the same function. Sessions initiated using a generic resource name are established with one of the LUs mapped to the generic resource name. This name is specified on the GRNAME parameter of the LUADD statement in the APPCPMxx parmlib member. If the GRNAME parameter was not specified in APPCPMxx, this value will be \*NONE\*.

**RMNAME=rmname**

The APPC/MVS-generated resource manager name for the LU, if the LU is registered as a communications resource manager with RRS, and is capable of supporting protected conversations. If SYNCPT=NO appears in the display, this value will be \*NONE\*.

**TPDATA=dsetname**

A 1 to 44 character name for a data set that contains the TP profile for LU *lname*.

**Line 9 of the message text:**

Line 9 appears if the DISPLAY APPC,LU command includes the ALL parameter. Line 9 appears once for either:

- Each partner LU with at least one session bound to LU *lname*
- The partner LUs specified on the PLUN keyword.

**PLUN=pluname**

The partner LU name. This name is network-qualified if the network ID is known.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5

**ATB122I hh.mm.ss APPC DISPLAY [id]**

**Explanation:** In the message, the following appears:

```
LOCAL TP'S      INBOUND CONVERSATIONS      OUTBOUND CONVERSATIONS
ttttt          cccccccccc        ooooooo
[LTPN=tename|X'hh'ccc | STPN=tename|~X'hh'ccc
   LLUN=luname    WUID=workid      CONVERSATIONS=mm      ASID=asid
   SCHED=schednm  ASNAME=adspname    TPID=tp-id]
[PTPN=tename|X'hh'ccc
   PLUN=luname
   PROTECTED=ppp   USERID=userid    DIRECTION=dir
   VERBS=verbs     IT=nnnnnnnnn    LCID=lcid
   MODE=mode       VTAMCID=cid     SYNC POINT IN PROG=sss
   LUWID=luwid]
```

The operator entered the DISPLAY APPC,TP command to display information about local transaction programs (TPs) and their conversations.

The first three lines of the message always appear.

In the first three lines of the message text:

*hh.mm.ss*

The hour, minute, and second at which the system processed the DISPLAY command. **00.00.00** appears in this field if the time of day (TOD) clock is not working.

*id* A decimal identifier used with the CONTROL C,D command to cancel status displays that are written on typewriter or printer consoles or displayed inline on a display console. This identifier does not appear when the display appears in a display area on a display console.

#### LOCAL TP'S *nnnnn*

The number of APPC/MVS TPs that the system is currently processing, or that were selected by optional keyword parameters. This value includes the number of TPs that are being processed by APPC/MVS servers (served TPs) and TPs that have been scheduled by APPC/MVS transaction schedulers. This later group of TPs is called scheduled TPs.

#### INBOUND CONVERSATIONS *nnnnn*

The number of inbound conversations that are currently allocated, or that were selected by optional keyword parameters.

#### OUTBOUND CONVERSATIONS *nnnnn*

The number of outbound conversations currently allocated, or that are selected by optional keyword parameters.

**Note:** If the partner TP is another local APPC/MVS TP, the conversation is considered local. Unless one or both ends of a local conversation are suppressed from the display by keyword filter parameters, the system displays all local conversations twice, as follows:

- The TP that did the allocate is shown as the local TP. The allocated TP is shown as the partner.
- The allocated TP is shown as the local TP. The TP that did the allocate is shown as the partner.

If the command includes the LIST parameter, lines 4 through 6 appear for each local TP that is currently active, or a subset of these TPs, depending on whether the operator specified one or more optional filter keyword parameters on the command.

The TPs are grouped by address space, with lines 4 through 6 repeated for each local TP running in an address space. Information about TPs processed by

APPC/MVS servers (served TPs) is separate from information about TPs scheduled by an APPC/MVS transaction scheduler.

Lines 4-6 appear first for a local scheduled TP, if one is running in the address space. The LTPN= variable indicates local scheduled TPs. Lines 4 through 6 appear for each served TP running in an address space, if any. The STPN= variable indicates local served TPs.

An address space can contain, at most, one local inbound scheduled TP, together with TP. An address space can, however, contain any number of served local TPs.

In lines 4 through 6 of the message text:

**LTPN=***tpname***X'hh'ccc** or **STPN=***tpname***X'hh'ccc**  
In the message text:

*tpname* The local TP name. If the TP is scheduled by a transaction scheduler, LTPN= precedes the name. If the TP is served by an APPC/MVS server, STPN= precedes the name. The TP name is 1 to 64 characters long.

**-X'hh'ccc**

The systems network architecture (SNA) service TP name. In the variable text:

*hh* The first character of the SNA service TP name, in hexadecimal. This character is non-displayable.

*ccc* A character string, with a maximum length of 3.

For outbound conversations, **\*UNKNOWN\*** appears in this field.

**LLUN=***luname*

The logical unit (LU) name.

**WUID=***workid*

The work unit identifier, which the transaction scheduler assigns to a program instance using the Unit\_of\_Work\_ID. The value in this field is **\*UNKNOWN\*** if:

- The transaction scheduler does not use the associate service
- The transaction scheduler does not use the Unit\_of\_Work\_ID parameter on the associate service
- The TP is not scheduled by a transaction scheduler

**CONVERSATIONS=***nnnnn*

The number of conversations in which the TP is involved. The maximum value is 99999.

**ASID=asid**

The address space identifier (ASID) to which the TP is associated.

**SCHED=schdname**

The name of the transaction scheduler that scheduled the TP. It is the value of a SCHED keyword in the APPCPMxx parmlib member. If the TP is a batch job, started task, or TSO/E user, or if the TP is running under an LU that is not associated with a transaction scheduler (NOSCHED LU), \*NONE\* appears in this field.

**ASNAME=adspname**

The name of the address space with which the TP is currently associated. If the local TP is running as a batch job, the job name appears in this field. If the local TP is running under TSO/E, the TSO/E userid appears in this field. If the local TP is running in a transaction initiator, a value from the TP profile appears in this field.

**TPID=tpid**

The TP identifier. It is a 16-digit hexadecimal value. The field (including TPID=) does not appear for served TPs.

If the DISPLAY APPC,TP command includes the ALL parameter, the following lines appear in the message text:

- Lines 4 through 6
- One occurrence of lines 7 through 10 for each conversation in which the local transaction program is involved.

In lines 7 through 10 of the message text:

**PTPN=tpnameIX'hh'ccc**

In the message text:

*tpname* The partner TP name. It is 1 to 64 characters long. For inbound conversations, \*UNKNOWN\* appears in this field.

**-X'hh'ccc**

The systems network architecture (SNA) service TP name. In the variable text:

*hh* The first character of the SNA service TP name, in hexadecimal. This character is non-displayable.

*ccc* A character string, with a maximum length of 3.

For inbound conversations, \*UNKNOWN\* appears in this field.

**PLUN=unitname**

The partner LU name. This name is network-qualified if the network ID is known.

**PROTECTED=ppp**

An indicator of the synchronization level of the conversation. *ppp* is one of the following:

**NO** The conversation was allocated with a synchronization level of either None or Confirm.

**YES** The conversation was allocated with a synchronization level of Syncpt; it is a protected conversation.

**USERID=userid**

The userid that flowed into or out of APPC/MVS on an Allocate request for this conversation. For an inbound conversation, it is the userid of the local system TP. For an outbound conversation, it is the userid of the partner TP. If a userid was not specified, \*NONE\* appears in this field.

**DIRECTION=dir**

The direction of the conversation, which is one of the following:

**INBOUND** The conversation is inbound. It was allocated by the partner TP.

**OUTBOUND** The conversation is outbound. It was allocated by the local TP.

**VERBS=nnnnnnnn**

The number of APPC callable services issued by the local TP on this conversation. The maximum value is 99999999.

**IT=nnnnnnnn**

The amount of time that the local TP has been waiting for data or a confirmation from the partner TP. Depending on the amount of time, nnnnnnnn has one of the following formats:

**sss.ttt S** The time is less than 1000 seconds.

**hh.mm.ss** The time is at least 1000 seconds, but less than 100 hours.

**hhhh.h.m** The time is at least 100 hours.

**\*\*\*\*\*** The time is greater than 99999 hours.

**NOTAVAIL** The time-of-day (TOD) clock is not working

**\*NONE\*** The local TP is not waiting for data or a confirmation.

In the variable text:

<i>ttt</i>	The number of milliseconds.
<i>sss or ss</i>	The number of seconds.
<i>mm</i>	The number of minutes.
<i>hh or hhhh</i>	The number of hours.

**LCID=lcid**

The local conversation identifier. It is an 8-digit hexadecimal value. For a Virtual Telecommunications Access Method (VTAM) conversation, \*NONE\* appears in this field.

**MODE=modename**

The mode used by the conversation.

**VTAMCID=cid**

The VTAM conversation identifier. For a VTAM conversation, this provides the link between APPC and VTAM. For a local conversation, \*NONE\* appears in this field. It is an 8-digit hexadecimal value.

**SYNC POINT IN PROG=sss**

An indication of whether a sync point operation is in progress for a protected conversation. *sss* is one of the following:

- NO** No Commit or Backout request is in progress.
- YES** A Commit or Backout request is in progress for a unit of recovery of a protected conversation.

**LUWID=luwid**

The logical unit of work identifier, which is one of the following depending on the type of conversation:

- For an unprotected conversation, the LUWID is a value supplied by the TP that allocated the conversation.
- For a protected conversation, the LUWID represents the processing a program performs from one sync point to the next. This LUWID can be up to 33 bytes in length; the last 16 characters are the hexadecimal representation of the instance number and sequence number.

If the TP that allocated the conversation did not supply a LUWID, and the conversation is not a protected conversation, \*NONE\* appears in the display.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBCODP

**Routing Code:** 2

**Descriptor Code:** 5

---

**ATB175I APPC COMPONENT TRACE IS UNAVAILABLE. REASON= xxxxxxxx. DATA= kkkkkkkkjjjjjjj.**

**Explanation:** This message supplies further diagnostic information for message ATB075I, which is issued to the console.

In the message text:

xxxxxxxx The reason code for the message.

kkkkkkkkjjjjjjj The internal reasons for this message.

**System action:** APPC operates without APPC component tracing.

**Operator response:** Report this message to the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the reason codes issued by this message.

**Source:** APPC/MVS

**Detecting Module:** ATBCTIT

**Routing Code:** Hardcopy only

**Descriptor Code:** 4

---

**ATB178I THE DUMP FOR APPC COMPONENT TRACE FAILED. REASON=xxxxxxxx. DATA=kkkkkkkk.**

**Explanation:** This message supplies further diagnostic information for message ATB078I, which is issued to the console.

In the message text:

xxxxxxxx The reason code issued in message ATB078I. The reason code is one of the following:

Reason Code	Explanation
61000001	The SDUMPX macro returned a zero return code, but the asynchronous part of the dump failed. kkkkkkkk is the contents of the event control block (ECB) posted by SDUMP after the dump completes. SDUMP puts the reason of failure into the ECB as the completion code.
61000002	The SDUMPX macro returned a

nonzero return code. *kkkkkkkk* is the return code from SDUMPX. Since SDUMPX is issued with TYPE=FAILRC, the reason code is inserted in the return code by SDUMP.

**kkkkkkkk** The reason code from the SDUMP macro describing the reason why dump failed (in hexadecimal).

**System action:** The system cannot issue the dump for APPC component trace.

**Operator response:** Report this message to the system programmer.

**System programmer response:** See the explanation for **REASON** and **DATA** above and correct the error indicated.

**Source:** APPC/MVS

**Detecting Module:** ATBCTCL

**Routing Code:** 2

**Descriptor Code:** 4

**ATB179I APPC COMPONENT TRACE START OR STOP FAILED. REASON=xxxxxxxx. DATA=kkkkkkkkjjjjjjjj.**

**Explanation:** The system encountered an error while processing a TRACE CT command to start or stop Advanced Program-to-Program Communication (APPC) component tracing.

In the message text:

**xxxxxxxx** The reason code for the message.

**kkkkkkkkjjjjjjjj** The internal reasons for this message.

**System action:** The system turns off APPC component trace.

**Operator response:** Report this message to the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the reason codes issued by this message.

**Source:** APPC/MVS

**Detecting Module:** ATBCTSM

**Routing Code:** Hardcopy only

**Descriptor Code:** 5

**ATB200I LOGICAL UNIT *luname* FOR TRANSACTION SCHEDULER *schedname* IS ACTIVE, BUT WILL REJECT ALL PROTECTED CONVERSATIONS UNTIL RRS/MVS IS ACTIVE.**

**Explanation:** The APPL statement for the logical unit specifies that it is capable of handling protected conversations, but it is waiting for the system syncpoint manager (RRS) to become active before allowing any protected conversations to be processed by the logical unit. Protected conversations are conversations with a synchronization level of syncpt.

In the message text:

***luname*** The name of the logical unit that is waiting for the activation of the system syncpoint manager.

***schedname*** The name of the scheduler that uses the specified logical unit.

**System action:** The system continues processing. The logical unit is in active state, but rejects Allocate requests for protected conversations.

**Operator response:** Notify the system programmer. At the request of the system programmer, activate RRS.

**System programmer response:** Determine why RRS is not active. If RRS should be activated, notify the operator.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

**ATB201I LOGICAL UNIT *luname* FOR TRANSACTION SCHEDULER *schedname* NOW ACCEPTS PROTECTED CONVERSATIONS.**

**Explanation:** The APPC/MVS LU can now process protected conversations.

In the message text:

***luname*** The name of the logical unit that is now accepting protected conversations.

***schedname*** The name of the scheduler that uses the specified logical unit.

**System action:** The system continues processing. The logical unit is in active state, and accepts conversations with a synchronization level of syncpt, as well as levels of none and confirm.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2**Descriptor Code:** 4

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**ATB202I    LOGICAL UNIT *luname* IS RESTARTING. BECAUSE HARDENED DATA WAS LOST, INCOMPLETE UNITS OF RECOVERY MIGHT NOT BE RESOLVED TO A CONSISTENT STATE.**

**Explanation:** The system syncpoint manager (RRS) has lost hardened data and, therefore, might not be able to provide APPC/MVS with data for all incomplete units of recovery for the resource manager *luname*.

In the message text:

*luname*        The name of the logical unit that is performing resource manager restart processing.

**System action:** The system continues processing. APPC/MVS processes units of recovery that RRS returns.

**System programmer response:** See message ATR212I.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRR

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB203I    LOGICAL UNIT *luname* ENCOUNTERED AN INSTALLATION ERROR FOR LOGSTREAM: *logstream\_name*. SYSTEM LOGGER RETURN CODE: *return-code*, REASON CODE: *rsnocode* FOR THE IXGCONN SERVICE.**

**Explanation:** APPC/MVS is attempting to restart *luname* as a resource manager. APPC/MVS received an error from the system logger while attempting to access the APPC/MVS log stream. Action must be taken before APPC/MVS can successfully access the log stream.

In the message text:

<i>luname</i>	The name of the logical unit that encountered the installation error.
<i>logstream_name</i>	The name of the APPC/MVS log stream.
<i>return-code</i>	The system logger return code from the IXGCONN service.
<i>rsnocode</i>	The system logger

reason code from the IXGCONN service.

**System action:** APPC/MVS activates this LU, but does not allow it to process protected conversations (conversations with a synchronization level of syncpt).

**Operator response:** Notify the system programmer.

**System programmer response:** Take the action described for the IXGCONN return and reason codes in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG*. Then reactivate the LU through either:

- Issuing a SET command for a parmlib member with an LUDEL statement, followed by a SET command for a parmlib member with an LUADD for the LUs; or
- Entering a VTAM VARY INACT command, followed by a VARY ACT command for the LUs.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRR

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB204I    LOGICAL UNIT OF WORK *luwid* WITH CONVERSATION CORRELATOR *convcorr* IS *outcome* AT LU *partner\_lu* BECAUSE OF RESYNCHRONIZATION BETWEEN LU *local\_lu* AND LU *partner\_lu*.**

**Explanation:** This message indicates that during resynchronization processing, the logical unit of work (identified by logical unit of work ID *luwid* and conversation correlator *convcorr*) has been committed or backed out at the participating LUs.

In the message text:

*luwid*        A unique identifier that distinguishes one logical unit of work from another for the purposes of accounting, network management, and resynchronization.

*convcorr*        A value that identifies the conversation that is being resynchronized.

*outcome*        One of the following:

**COMMITTED**    The overall outcome for the distributed unit of recovery is committed.

**BACKED OUT**    The overall outcome for the distributed unit of recovery is backed out.

*partner\_lu*        The name of the logical unit that is the target of the resynchronization exchange.

## ATB205I • ATB206E

### *local\_lu*

The name of the logical unit that initiated the resynchronization exchange.

**System action:** Resynchronization processing completes by informing the system syncpoint manager (RRS) of the outcome of the expression of interest for the logical unit of work.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** Hardcopy only

**Descriptor Code:** 4

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**ATB205I RESYNCHRONIZATION FOR LOGICAL UNIT OF WORK *luwid* WITH CONVERSATION CORRELATOR *convcorr* HAS COMPLETED, BUT RESOURCES FOR LOCAL LU *local\_lu* AND PARTNER LU *partner\_lu* HAVE NOT BEEN BROUGHT TO A CONSISTENT STATE.**

**Explanation:** APPC/MVS detected an out-of-synchronization condition that cannot be corrected by resynchronization. During resynchronization with a partner resource manager, APPC/MVS received an unexpected response that resulted from a heuristic decision made prior to or during resynchronization processing. Heuristic damage has been detected for the logical unit of work identified by *luwid* and conversation correlator *convcorr*.

More than one LU might be affected by the error reported in this message. If so, this message is displayed once for each affected LU.

In the message text:

*luwid* A unique identifier that distinguishes one logical unit of work from another for the purposes of accounting, network management, and resynchronization.

*convcorr* A value that identifies the conversation that is being resynchronized.

*local\_lu* The name of the logical unit that initiated the resynchronization exchange.

*partner\_lu* The name of the logical unit that is the target of the resynchronization exchange.

**System action:** The system has detected the out-of-synchronization condition. A heuristic mixed state will be propagated to the initiator (if any) of the syncpoint operation for the logical unit of work.

**Operator response:** Take installation-defined action to resynchronize the specified out-of-synchronization

resource with the other participants in this logical unit of work.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB206E LU *luname1* DETECTED A PROTOCOL VIOLATION MADE BY LU *luname2* DURING RESYNCHRONIZATION. THE RESYNCHRONIZATION HAS FAILED. SOME LOGICAL UNITS OF WORK MIGHT NOT BE AUTOMATICALLY RESOLVED BY RESYNCHRONIZATION AND NO NEW PROTECTED CONVERSATIONS MAY BE ALLOCATED BETWEEN THE TWO LOGICAL UNITS UNTIL THE PROBLEM IS RESOLVED. REASON: *description-of-protocol-violation***

**Explanation:** This message is issued during APPC/MVS resynchronization processing or exchange log name processing when an error is detected by *luname1* in the data sent by *luname2* during the transaction exchange.

In the message text:

*luname1* The name of the logical unit that detected the protocol violation.

*luname2* The name of the logical unit that generated the protocol violation.

*description-of-protocol-violation*

One of the following:

### COMPARE STATES GDS VARIABLE NOT RECEIVED

During a resynchronization exchange, the partner did not send a Compare States GDS variable reply containing the state of the logical unit of work at the partner LU.

### UNEXPECTED DATA RECEIVED FROM INITIATOR

Unexpected data was received from a partner who was initiating a cold-start exchange log name transaction.

### DEALLOCATE ABEND OF CONVERSATION NOT RECEIVED

A deallocation of the exchange log name or resynchronization transaction

<p>conversation from the initiator was expected, but not received.</p> <p><b>UNEXPECTED STATUS DATA RECEIVED FROM PARTNER</b></p> <p>Unexpected status data was received from a partner who was replying to an exchange log name or resynchronization transaction initiated by the local LU.</p> <p><b>NO DATA RECEIVED FROM THE PARTNER</b></p> <p>During a resynchronization or exchange log name transaction exchange, the partner responded but failed to send GDS variable data containing the state of the partner LU.</p> <p><b>UNEXPECTED DATA RECEIVED FROM PARTNER</b></p> <p>Unexpected data was received from a partner who was replying to an exchange log name or resynchronization transaction initiated by the local LU.</p> <p><b>INVALID STATUS DATA RECEIVED FROM THE PARTNER</b></p> <p>Status data that was invalid for the reply was received by the initiator of the exchange log name or resynchronization transaction.</p> <p><b>NO DATA RECEIVED FROM THE INITIATOR</b></p> <p>The initiator of the SNA service TP request failed to send GDS variable data describing the request.</p> <p><b>TOO MUCH DATA RECEIVED FROM THE INITIATOR</b></p> <p>The initiator of the SNA service TP request sent more than the expected amount of GDS variable data for the request.</p> <p><b>INVALID STATUS DATA RECEIVED FROM THE INITIATOR</b></p> <p>Status data that was invalid for the request was received by the partner of the exchange log name or resynchronization transaction.</p>	<p><b>SYNCPT CAPABILITIES NEGOTIATION NOT ALLOWED</b></p> <p>The partner attempted to negotiate syncpt capabilities while there was outstanding resynchronization work to be performed between the local and partner LUs.</p> <p><b>UNEXPECTED COLD START REQUEST RECEIVED</b></p> <p>A cold-start exchange log name request was received from a partner LU while sessions were still active between the local and partner LUs. The request was rejected.</p> <p><b>SYNCPT CAPABILITIES DO NOT MATCH</b></p> <p>The syncpt capabilities sent in an exchange log name GDS variable for a warm-start exchange do not match the capabilities previously negotiated by the local and partner LUs.</p> <p><b>System action:</b> If this message is issued during APPC/MVS resynchronization processing to resolve incomplete units of recovery, resynchronization does not continue. Resynchronization will be attempted again automatically at a later time.</p> <p>If this message is issued during an exchange log name interchange preceding a protected conversation allocate or inbound attach request, the protected conversation between the local and partner LU is not allocated. No protected conversations between the local and partner LU will be allocated until the warm/cold mismatch can be resolved.</p> <p><b>Operator response:</b> Contact the operator at LU <i>luname2</i> to determine the cause of the error.</p> <p><b>System programmer response:</b> Examine the logrec data set of the local LU's system. When a protocol violation is detected during the transaction exchange of Exchange Log Names GDS variables or Compare States GDS variables, APPC/MVS records diagnostic information pertaining to the protocol violation made by the partner LU system. APPC/MVS sends message ATB70051I or ATB70056I to the partner system as log data when deallocating the resynchronization conversation abnormally.</p> <p><b>Source:</b> APPC/MVS</p> <p><b>Detecting Module:</b> ATBPCRS</p> <p><b>Routing Code:</b> Hardcopy only</p> <p><b>Descriptor Code:</b> 4</p>
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**ATB207I EXCHANGE LOG NAME PROCESSING HAS COMPLETED SUCCESSFULLY BETWEEN LOCAL LU *luname* AND PARTNER LU *pluname* LOCAL LOG: *local-log* PARTNER LOG: *partner-log***

**Explanation:** An APPC/MVS LU and its partner LU have successfully completed an exchange log name transaction, which must precede the allocation of protected conversations (conversations with a synchronization level of syncpt).

In the message text:

<i>luname</i>	The name of the local LU that initiated the exchange log name transaction.
<i>pluname</i>	The name of the logical unit that is the target of the exchange log name transaction.
<i>local-log</i>	The name of the Local LU log.
<i>partner-log</i>	The name of the partner LU log.

**System action:** The system continues processing. The local and partner LU pair can accept and process requests to allocate conversations with a synchronization level of syncpt between the LU pair.

**Operator response:** None.

**System programmer response:** None.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** Hardcopy only

**Descriptor Code:** 4

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**ATB208I LOGICAL UNIT *luname* FOR TRANSACTION SCHEDULER *schedname* WILL REJECT ALL PROTECTED CONVERSATIONS. THE RESOURCE MANAGER EXITS HAVE BEEN UNSET. NOTIFICATION EXIT REASON=*rancode*.**

**Explanation:** Because of the reason indicated by *rancode*, the resource manager notification exit for this logical unit has been unset. The LU can no longer accept protected conversations (conversations with a synchronization level of syncpt).

In the message text:

<i>luname</i>	The name of the logical unit that can no longer accept protected conversations.
<i>schedname</i>	The name of the scheduler that uses the specified logical unit.
<i>rancode</i>	The value passed to the resource manager notification exit for this LU. This value indicates why the resource

manager exits have been unset. For an explanation of these values, see the description of field **value2** in the parameter list for the NOTIFICATION exit routine in *z/OS MVS Programming: Resource Recovery*.

**System action:** The LU continues processing conversations with a synchronization level of none or confirm. Protected conversations (conversations with a synchronization level of syncpoint) are terminated at the time the exits are unset. APPC/MVS will attempt to reset this LU's resource manager exits, so the LU can resume processing protected conversations.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB209I LOGICAL UNIT *lu\_name* DETECTED A MAXBUFSIZE VALUE THAT IS TOO SMALL FOR THE APPC/MVS LOG STREAM *logstream\_name*. APPC/MVS EXPECTS A BUFFER SIZE OF AT LEAST 65276 BYTES.**

**Explanation:** APPC/MVS is attempting to restart this LU as a resource manager. APPC/MVS expects a buffer size of at least 65,276 bytes. The MAXBUFSIZE value returned from the IXGCONN service is smaller than 65,276.

In the message text:

<i>lu_name</i>	The name of the LU that APPC/MVS is attempting to restart.
<i>logstream_name</i>	The name of the APPC/MVS log stream.

**System action:** APPC/MVS activates this LU, but does not allow it to process protected conversations (conversations with a synchronization level of syncpt).

**Operator response:** Notify the system programmer.

**System programmer response:** Do the following:

1. Redefine the structure for the APPC/MVS log stream to have a MAXBUFSIZE value of at least 65,276 bytes.
2. Redefine the APPC/MVS log stream using the utilities provided by the system logger, and restart the LUs.
3. Reactivate the LU through either:
  - Issuing a SET command for a parmlib member with an LUDEL statement, followed by a SET command for a parmlib member with an LUADD for the LUs; or
  - Entering a VTAM VARY INACT command, followed by a VARY ACT command for the LUs.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRR

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB210E A LOG NAME EXCHANGE INITIATED BY LU *lname1* WITH LU *lname2* HAS FAILED. LU *lname3* DETECTED A WARM/COLD MISMATCH. AS A RESULT, SOME LOGICAL UNITS OF WORK MIGHT NOT BE AUTOMATICALLY RESOLVED BY RESYNCHRONIZATION AND NO NEW PROTECTED CONVERSATIONS MAY BE ALLOCATED BETWEEN THE TWO LOGICAL UNITS UNTIL THE MISMATCH IS RESOLVED. REASON: *reason***

**Explanation:** This message is issued during an exchange log name transaction when the local LU or partner LU has detected a warm/cold log status mismatch. An exchange log name transaction is initiated following a session failure or at first session initiation after system restart.

In the message text:

*lname1*

The name of the logical unit that initiated the log name exchange

*lname2*

The name of the logical unit that is the target of the exchange log name

*lname3*

The name of the logical unit that detected the exchange log name error.

*reason* One of the following:

#### COLD LOG STATUS REJECTED BY INITIATOR

The initiator of an exchange log name transaction rejected the local LU cold-log status because the initiating LU has incomplete units of work on its log that require resynchronization with the local LU.

#### RESYNC WORK EXISTS WITH THE PARTNER LU

The initiator of an exchange log name transaction detected that the partner LU has reported a cold-log status. The cold-log status is rejected because the initiating LU has incomplete units of work on its log that require resynchronization with the partner LU.

#### COLD LOG STATUS REJECTED BY PARTNER

The partner in an exchange log name transaction rejected the initiator LU cold-log status because the partner LU has incomplete units of work on its log that require resynchronization with the initiating LU.

#### RESYNC WORK EXISTS WITH THE INITIATOR LU

The partner in an exchange log name transaction detected that the initiating LU has reported a cold-log status. The cold-log status is rejected because the partner LU has incomplete units of work on its log that require resynchronization with the initiating LU.

**System action:** If this message is issued during APPC/MVS resynchronization processing to resolve incomplete units of recovery, resynchronization does not continue. If APPC/MVS is the initiator of resynchronization processing, APPC/MVS will attempt resynchronization again automatically at a later time.

If this message is issued during an exchange log name interchange preceding a protected conversation allocate or inbound attach request, the protected conversation between the local and partner LU is not allocated. No protected conversations between the local and partner LU will be allocated until the warm/cold mismatch can be resolved.

Symptom records are written to the logrec data set to record the error condition and record diagnostic data.

**Operator response:** Notify the system programmer.

**System programmer response:** For complete information on resolving this problem, see the description of how to handle warm/cold mismatch in *z/OS MVS Planning: APPC/MVS Management*.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB211E A LOG NAME EXCHANGE INITIATED BY LU *luname1* WITH LU *luname2* HAS FAILED. LU *luname3* DETECTED A LOG NAME MISMATCH. AS A RESULT, SOME LOGICAL UNITS OF WORK MIGHT NOT BE AUTOMATICALLY RESOLVED BY RESYNCHRONIZATION AND NO NEW PROTECTED CONVERSATIONS MAY BE ALLOCATED BETWEEN THE TWO LOGICAL UNITS UNTIL THE MISMATCH IS RESOLVED. REASON: *reason***

**Explanation:** A log name mismatch was detected during an exchange log name request by *luname3* during conversation allocation processing between *luname1* and *luname2* or during a resynchronization exchange between *luname1* and *luname2* to bring distributed units of recovery to a consistent state after a session or system failure.

*reason* further describes the cause of the log name mismatch.

In the message text:

*luname1*

The name of the LU that initiated the log name exchange

*luname2*

The name of the LU that is the target of the exchange log name

*luname3*

The name of the LU that detected the mismatch

*reason* One of the following:

**PARTNER XLN REPLY LOG NAME DOES NOT MATCH LOCAL LOG**

The log name sent by the partner LU in reply to the exchange log name request does not match what is stored by the local LU in its log.

**ABNORMAL REPLY RECEIVED FROM PARTNER LU**

The initiator of an exchange log name transaction received an abnormal reply from the partner LU. The most likely cause of this abnormal reply is a mismatch between the log name sent by the local LU in the exchange log name GDS variable, and the log name for the initiator LU stored in the partner's log.

**PARTNER XLN REQUEST LOG NAME DOES NOT MATCH LOCAL LOG**

The log name sent by the initiator LU

in the exchange log name request does not match what is stored by the local LU in its log.

**System action:** If this message is issued during APPC/MVS resynchronization processing to resolve incomplete units of recovery, resynchronization does not continue. Resynchronization will be attempted again automatically at a later time.

If this message is issued during an exchange log name interchange preceding a protected conversation allocate or inbound attach request, the protected conversation between the local and partner LU is not allocated. No protected conversations between the local and partner LU will be allocated until the log name mismatch can be resolved.

Symptom records are written to the logrec data set to record the error condition and record diagnostic data.

**Operator response:** Ensure that the local system has restarted with the correct system logs, including the correct RRS log group name (GNAME parameter specified on the RRS cataloged procedure).

Contact the operator for the partner system to ensure that the partner system restarted with the correct system logs.

Make sure to provide the complete text of message ATB227I, if it is issued.

**System programmer response:** The cause of the log name mismatch may be due to:

- The incorrect system log being used on the local or partner system.
- An internal error in APPC/MVS logging or in the logging function of the partner system.

If an incorrect system log caused the problem, attempt to correct the log name mismatch problem on the partner system using the partner system's local log name mismatch recovery procedures. For complete information on resolving this problem, see the description of how to handle log name mismatch in *z/OS MVS Planning: APPC/MVS Management*.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB212E    LU *luname1* DETECTED A PROTOCOL VIOLATION IN THE EXCHANGE LOG NAME DATA SENT BY LU *luname2*. SOME LOGICAL UNITS OF WORK MIGHT NOT BE AUTOMATICALLY RESOLVED BY RESYNCHRONIZATION AND NO NEW PROTECTED CONVERSATIONS MAY BE ALLOCATED BETWEEN THE TWO LOGICAL UNITS UNTIL THE PROBLEM IS RESOLVED.**

**Explanation:** This message is issued during APPC/MVS resynchronization or exchange log name processing when an error is detected by *luname1* in the negotiated syncpoint capabilities sent by *luname2*. The partner responded with an indication that it supports a capability that APPC/MVS does not support.

In the message text:

*luname1*

The name of the LU that detected the protocol violation.

*luname2*

The name of the LU that generated the protocol violation.

**System action:** If this message is issued during APPC/MVS resynchronization processing to resolve incomplete units of recovery, resynchronization does not continue. Resynchronization will be attempted again automatically at a later time.

If this message is issued during an exchange log name interchange preceding a protected conversation allocate or inbound attach request, the protected conversation between the local and partner LU is not allocated. No protected conversations between the local and partner LU will be allocated until the protocol violation can be corrected.

**Operator response:** Contact the operator at LU *luname2* to determine the cause of the error.

**System programmer response:** Examine the logrec data set of the local LU's system. When a protocol violation is detected during the transaction exchange of Exchange Log Names GDS variables or Compare States GDS variables, APPC/MVS records diagnostic information pertaining to the protocol violation made by the partner LU system. APPC/MVS sends message ATB70051I or ATB70056I to the partner system as log data when deallocating the resynchronization conversation abnormally.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB213I    LOGICAL UNIT OF WORK *luwid* WITH CONVERSATION CORRELATOR *convcorr* REQUIRED RESYNCHRONIZATION ON *mm/dd/yyyy* AT *resyncetime*. TO RESOLVE THE LOGICAL UNIT OF WORK, RESYNCHRONIZATION HAS STARTED BETWEEN LOCAL LU *luname* AND PARTNER LU *pluname*.**

**Explanation:** This message notifies the operator that APPC/MVS detected a need for resynchronization of a logical unit of work involving APPC/MVS logical unit *luname* and logical unit *pluname*.

In the message text:

*luwid*              A unique identifier that distinguishes one logical unit of work from another for the purposes of accounting, network management, and resynchronization.

*convcorr*            A value that identifies the conversation that is being resynchronized.

*mm/dd/yyyy*        The date on which resynchronization was initiated for the distributed unit of recovery identified by *luwid* and *convcorr*.

*resyncetime*        The time at which resynchronization was initiated for the distributed unit of recovery identified by *luwid* and *convcorr*.

*luname*             The name of the LU that initiated the resynchronization exchange.

*pluname*            The name of the LU that is the target of the resynchronization exchange.

**System action:** Resynchronization has been scheduled for the specified logical unit of work.

**Operator response:** Note this message for future reference. It might be needed for problem determination.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB214I THE RESYNCHRONIZATION OF LOGICAL UNIT OF WORK *luwid* WITH CONVERSATION CORRELATOR *convcorr* IS BEING SUSPENDED ON *mm/dd/yyyy* AT *resyncetime*. RESYNCHRONIZATION WAS STARTED BY LOCAL LU *luname* ON *mm/dd/yyyy* AT *resyncetime* FOR THE LOGICAL UNIT OF WORK. THE LOCAL LU WILL TRY AGAIN TO RESYNCHRONIZE WITH LU *pluname* TO RESOLVE THE LOGICAL UNIT OF WORK.**

---

**Explanation:** This message indicates an attempt to resynchronize logical unit of work represented by the ID *luwid* and conversation correlator *convcorr*.

Resynchronization can be delayed by the inability to establish connections with the conversation partner, a log name mismatch or a protocol violation that requires operator intervention. APPC/MVS periodically retries resynchronization after encountering such recoverable errors.

In the message text:

<i>luwid</i>	A unique identifier that distinguishes one logical unit of work from another for the purposes of accounting, network management, and resynchronization.
<i>convcorr</i>	A value that identifies the conversation that is being resynchronized.
<i>mm/dd/yyyy</i>	The date on which resynchronization is being suspended due to a failure to complete a resynchronization exchange for logical unit of work <i>luwid</i> and <i>convcorr</i> with LU <i>pluname</i> .
<i>resyncetime</i>	The time at which: <ul style="list-style-type: none"> <li>• Resynchronization is suspended because of a failure to complete a resynchronization exchange for <i>luwid</i> and <i>convcorr</i> with <i>pluname</i>, or</li> <li>• Resynchronization originally began for <i>luwid</i> and <i>convcorr</i> with <i>pluname</i>.</li> </ul>
<i>luname</i>	The name of the LU that initiated the resynchronization exchange.
<i>partner_lu</i>	The name of the LU that is the target of the resynchronization exchange.

**System action:** Resynchronization has been scheduled for the specified logical unit of work; after the APPC/MVS-defined time-out period, APPC/MVS will begin resynchronization again.

**Operator response:** If resynchronization continues to be delayed, you might need to communicate with other operators (if the resources are supported at different

locations), or contact the system programmer.

**System programmer response:** The error that caused resynchronization for the logical unit of work to fail has been recorded by a symptom record written to the logrec data set. Keep the symptom record for future reference; you might need it for problem determination.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB215E LOGICAL UNIT *pluname* HAS ISSUED A DEALLOCATE\_OF\_TYPE DEALLOCATE\_ABEND TO ABNORMALLY TERMINATE THE RESYNCHRONIZATION TRANSACTION EXCHANGE.**

---

**Explanation:** This message is issued during initialization processing of exchange log names or APPC/MVS resynchronization recovery processing if the partner in the resynchronization transaction issues a deallocate type of abend on the resynchronization conversation. The partner might do so because of a protocol violation in exchange log name data, or compare states data sent by the local system and detected by the partner.

An appropriate message indicating the cause of the error may be displayed on the partner LU system.

In the message text:

<i>pluname</i>	The name of the LU that deallocated the resynchronization conversation abnormally.
----------------	--

**System action:** If this message is issued during exchange log name processing for an allocate request or an inbound attach request, the protected conversation allocate request or inbound attach request fails.

If this message is issued during resynchronization processing, initiated by APPC/MVS, the resynchronization attempt fails and APPC/MVS will attempt resynchronization for the logical unit of work at a later time.

**System programmer response:** Examine the log of the partner LU's system. If a protocol violation was detected in the local system's Exchange log Names GDS variable or Compare States GDS variable, the remote system may have generated diagnostic information itself. This information may help to diagnose the cause of a protocol violation.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB216E** PROTOCOL VIOLATION DETECTED IN THE RESYNCHRONIZATION OF LOGICAL UNIT OF WORK *luwid* WITH CONVERSATION CORRELATOR *convcorr*. LOGICAL UNIT OF WORK STATE SENT WAS *state* AND LOGICAL UNIT OF WORK STATE RECEIVED FROM LU *luname* WAS *state*.

**Explanation:** Resynchronization processing detected a response that violates the resynchronization protocol during resynchronization of logical unit of work *luwid*. Resynchronization support in the syncpoint manager at LU *luname* probably has a program error.

In the message text:

*luwid* A unique identifier that distinguishes one logical unit of work from another for the purposes of accounting, network management, and resynchronization.

*convcorr*

A value that identifies the conversation that is being resynchronized.

*state* One of the following:

- RESET
- IN DOUBT
- COMMITTED
- HEURISTIC RESET
- HEURISTIC COMMITTED
- HEURISTIC MIXED

*luname* The name of the partner LU that participated in the resynchronization transaction and the protocol violating state value was received from.

**System action:** APPC/MVS suspends the resynchronization for the logical unit of work with the specified LU, and issues message ATB214I. A resynchronization request for the logical unit of work will be attempted at a later time.

**Operator response:** Make inquiries to determine the state of the resources. Take installation-defined action to resynchronize the resources. Installation-defined action may include removing APPC/MVS's interest for the logical unit of work. For information on removing interest in RRS units of recovery, see *z/OS MVS Programming: Resource Recovery*.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB217I** EXCHANGE LOG NAME PROCESSING INITIATED BY LU *luname1* WITH LU *luname2* HAS FAILED ON *mm/dd/yyyy* AT *resynctime*. THE LOCAL LU WILL TRY AGAIN TO COMPLETE A SUCCESSFUL EXCHANGE LOG NAME WITH LU *pluname*. SOME LOGICAL UNITS OF WORK MIGHT NOT BE AUTOMATICALLY RESOLVED BY RESYNCHRONIZATION AND NO NEW PROTECTED CONVERSATIONS MAY BE ALLOCATED BETWEEN THE TWO LOGICAL UNITS UNTIL AN EXCHANGE LOG NAME TRANSACTION COMPLETES.

**Explanation:** This message is issued during resource manager restart processing, prior to initiation of resynchronization recovery processing for incomplete units of recovery returned by the system syncpoint manager (RRS). During the exchange log name interchange, an error prevented the exchange log name transaction from completing successfully.

In the message text:

*luname1* The name of the LU that initiated the log name exchange

*luname2* The name of the LU that is the target of the exchange log name

*mm/dd/yyyy* The date on which the exchange log name process is suspended.

*resynctime* The time at which the exchange log name process is suspended.

*pluname* The name of the LU that is the target of the resynchronization exchange.

**System action:** APPC/MVS suspends resynchronization recovery processing for incomplete units of recovery returned during resource manager restart processing, until an exchange log name transaction completes successfully between *luname1* and *luname2*. *luname1* will try again to complete an exchange log name transaction with *luname2*.

**Operator response:** Contact the operator at *luname2* to determine the status of *luname2*.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** Hardcopy only

**Descriptor Code:** 4

---

**ATB218E** PROTOCOL VIOLATION DETECTED IN THE *gds-variable-name* DATA SENT BY LU *luname*. THE RESYNCHRONIZATION HAS FAILED.

**Explanation:** This message is issued during

## ATB219E • ATB220I

APPC/MVS exchange log name processing or APPC/MVS resynchronization recovery processing. If this message is issued during exchange log processing, it indicates that a format error was detected in the exchange log name data sent by another communications resource manager.

If this message is issued during APPC/MVS resynchronization recovery, it indicates that a format error was detected in the exchange log name data or the compare states data that is sent by a communications resource manager as part of resynchronization recovery.

In the message text:

*gds-variable-name*

One of the following:

- EXCHANGE LOG NAMES GDS VARIABLE
- COMPARE STATES GDS VARIABLE

*luname* The name of the LU that sent a GDS variable containing a protocol violation in its format.

**System action:** If this message is issued during APPC/MVS resynchronization processing to resolve incomplete units of recovery, resynchronization does not continue. Resynchronization will be attempted again automatically at a later time.

If this message is issued during an exchange log name interchange preceding a protected conversation allocate or inbound attach request, the protected conversation between the local and partner LU is not allocated. No protected conversations between the local and partner LU will be allocated until the protocol violation can be corrected.

**Operator response:** Contact the operator at LU *luname* to determine the cause of the error.

**System programmer response:** Examine the logrec data set of the local LU's system. When a protocol violation is detected during the transaction exchange of Exchange Log Names GDS variables or Compare States GDS variables, APPC/MVS records diagnostic information pertaining to the protocol violation made by the partner LU system. APPC/MVS sends message ATB70051I or ATB70056I to the partner system as log data when deallocating the resynchronization conversation abnormally.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB219E** APPC/MVS, AS INITIATOR OF A RESYNCHRONIZATION, HAS RECEIVED AN ERROR REPLY IN THE COMPARE STATES DATA FROM LU *luname*. THE RESYNCHRONIZATION HAS FAILED.

**Explanation:** A resynchronization interchange originated by APPC/MVS has received an error reply in the compare states data from its partner.

The error reply resulted because the partner LU detected a violation in the compare states data that was sent by APPC/MVS.

In the message text:

*luname* The name of the LU that sent a GDS variable that contains an abnormal reply indication.

**System action:** APPC/MVS suspends resynchronization with the partner LU and issues message ATB214I. After a system-specified time interval, APPC/MVS will initiate the resynchronization exchange again.

**Operator response:** Contact the operator at LU *luname* to determine the cause of the error. Manual intervention might be required to finish the resynchronization and allow the unit of recovery to complete.

**System programmer response:** Examine the log of the partner LU's system. If a protocol violation was detected in the local system's Exchange log Names GDS variable or Compare States GDS variable, the remote system may have generated diagnostic information itself. This information may help to diagnose the cause of a protocol violation.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB220I** PROTOCOL VIOLATION MADE BY LU *luname1* WAS DETECTED BY LU *luname2* IN THE SYNCPOINT PROCESSING OF LUWID *luwid* WITH CONVERSATION CORRELATOR *convcorr*. syncpoint-message-in-error. THE SYNCPOINT PROCESSING WAS TERMINATED.

**Explanation:** The local LU has detected a response sent by the partner LU that violates the syncpoint exchange protocol during the syncpoint processing of a logical unit of work.

In the message text:

<i>luname1</i>	The network-qualified name of the partner LU that violated the syncpoint exchange protocol
<i>luname2</i>	The network-qualified name of the LU that detected the protocol violation
<i>luwid</i>	A unique identifier that distinguishes one logical unit of work from another for the purposes of accounting, network management, and resynchronization.
<i>convcorr</i>	A value that uniquely identifies the branch of the transaction tree for which the syncpoint exchange is being conducted.
<i>syncpoint-message-in-error</i>	<p>One of the following:</p> <ul style="list-style-type: none"> <li>NO PS HEADER WAS RECEIVED</li> <li>EXPECTED PS HEADER WAS NOT RECEIVED</li> <li>EXPECTED STATUS WAS NOT RECEIVED</li> <li>UNEXPECTED RETURN CODE WAS RECEIVED</li> <li>UNEXPECTED DATA WAS RECEIVED</li> <li>CONVERSATION STATE WAS INVALID</li> </ul>

**System action:** Syncpoint processing continues, but APPC/MVS deallocates the protected conversation and the state of the distributed resources is unknown; a heuristic condition might exist. If the TPs involved in the deallocated conversation use the Error\_Extract service, they will receive message ATB80134I, which indicates why the conversation was terminated during the syncpoint operation.

**Operator response:** Notify the system programmer or the operator at *luname1* to determine the cause of the protocol violation.

**Source:** APPC/MVS

**Detecting Module:** ATBPCBO, ATBPCCM, ATBPCDS, ATBPCEF, ATBPCEU, ATBPCPR

**Routing Code:** Hardcopy only

**Descriptor Code:** 4

---

**ATB221I    AN ATRSUSI CALL ISSUED TO SET  
                *side\_information* HAS FAILED.  
                INTERNAL REASON CODE = *rsncode*.**

**Explanation:** APPC/MVS issued a call to the ATRSUSI service, which is a service of the system syncpoint manager (RRS). The call failed. When such a failure is detected during a syncpoint exchange, the system cannot perform logical unit of work management (that is, back out the next LUWID, or dismantle the syncpoint tree), as specified by the LU 6.2 syncpoint architecture.

In the message text:

*side\_information* One of the following:  
DRIVE BACKOUT  
BREAK TREE

*rsncode* The code returned by the ATRSUSI service. Codes from this service are documented in *z/OS MVS Programming: Resource Recovery*.

**System action:** APPC/MVS terminates the syncpoint processing for the logical unit of work *luwid* with the conversation correlator *convcorr*.

**Operator response:** Notify the system programmer.

**Application Programmer Response:** The application program should backout all local resources associated with the next unit of recovery and abnormally deallocate all APPC/MVS protected conversations associated with the next unit of recovery to cause all remote resources associated with the local application to backout also.

**System programmer response:** Search the problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center, and provide the dump that was taken when the error occurred.

**Source:** APPC/MVS

**Detecting Module:** ATBPCBO, ATBPCCM, ATBPCDS, ATBPCEF, ATBPCEU, ATBPCPR

**Routing Code:** Hardcopy only

**Descriptor Code:** 4

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**ATB222I    LOGICAL UNIT *luname* ATTEMPTED A  
                SYSTEM LOGGER SERVICE FOR A  
                LOGSTREAM THAT HAS NOT BEEN  
                DEFINED. THE LOGSTREAM NAME IS:  
                *logstream\_name*.**

**Explanation:** APPC/MVS received an error from system logger while attempting to access the APPC/MVS log stream. The system logger return and reason codes indicate that the APPC/MVS log stream has not been defined to the system. Without a log stream, APPC/MVS cannot process protected conversations (conversations with a synchronization level of syncpt).

In the message text:

*luname* The APPC/MVS LU that attempted to access the log stream.

*logstream\_name* The name of the APPC/MVS log stream.

**System action:** APPC/MVS logical units continue processing conversations with a synchronization level of none or confirm, but cannot process any protected conversations.

**Operator response:** Notify the system programmer.

**System programmer response:** To correct the problem, define the APPC/MVS log stream as documented in *z/OS MVS Planning: APPC/MVS Management*. Then, reactivate the LU through either:

- Issuing a SET command for a parmlib member with an LUDEL statement, followed by a SET command for a parmlib member with an LUADD for this LU; or
- Entering a VTAM VARY INACT command, followed by a VARY ACT command for this LU.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRR

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB223I APPC/MVS ENCOUNTERED INTERNAL ERRORS WHILE ISSUING A LOGGING SERVICE. LOGGING SERVICES ARE NOT AVAILABLE.**

**Explanation:** This message is issued when an APPC/MVS internal error occurs while initializing the logging service or performing logging of protected conversation information. Because the logging service is not available, APPC/MVS cannot process any protected conversations (conversations with a synchronization level of syncpt).

**System action:** APPC/MVS issues an SVC dump. APPC/MVS logical units continue processing conversations with a synchronization level of none or confirm, but cannot process any protected conversations.

**Operator response:** Notify the system programmer.

**System programmer response:** Search the problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center, and provide the dump that was taken when the error occurred.

**Source:** APPC/MVS

**Detecting Module:** ATBPCLT

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB224I BECAUSE OF AN INTERNAL ERROR, LOGICAL UNIT *luname* IS ACTIVE, BUT WILL REJECT ALL PROTECTED CONVERSATIONS.**

**Explanation:** An internal error occurred while APPC/MVS was initializing the logical unit *luname*. A system dump might accompany this message.

The LU can process only conversations with a synchronization level of none or confirm.

In the message text:

*luname* The name of the logical unit that APPC/MVS was initializing.

**System action:** APPC/MVS activates the LU, which is capable of processing only conversations with a synchronization level of none or confirm.

**Operator response:** Notify the system programmer.

**System programmer response:** To correct the problem, follow the responses for the ATB message or EC7 abend reason code that accompanies ATB224I. Then, reactivate the LU through either:

- Issuing a SET command for a parmlib member with an LUDEL statement, followed by a SET command for a parmlib member with an LUADD for this LU; or
- Entering a VTAM VARY INACT command, followed by a VARY ACT command for this LU.

If the error persists, search the problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center with the dump that was taken when the error occurred.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB225I LOGICAL UNIT *luname* IS ACTIVE, BUT WILL REJECT ALL PROTECTED CONVERSATIONS BECAUSE OF A FAILURE RETURN CODE FROM THE *service* SERVICE. RETURN CODE IS *retcode*.**

**Explanation:** While trying to initialize a logical unit, APPC/MVS received an error return code from registration services or from an RRS service.

In the message text:

*luname* The name of the logical unit that APPC/MVS was initializing

*service* The name of the registration service or RRS service that returned the non-zero return code

*retcode* The return code from the registration service

**System action:** APPC/MVS activates the LU, but it can process only conversations with a synchronization level of none or confirm.

**Operator response:** Notify the system programmer.

**System programmer response:** To correct the problem, follow the response for the registration service reason code, which is described in *z/OS MVS Programming: Resource Recovery*. Then, reactivate the LU through either:

- Issuing a SET command for a parmlib member with an LUDEL statement, followed by a SET command for a parmlib member with an LUADD for this LU; or
- Entering a VTAM VARY INACT command, followed by a VARY ACT command for this LU.

If the error persists, search the problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB226I     LOGICAL UNIT *luname* IS ACTIVE, BUT  
WILL REJECT ALL PROTECTED  
CONVERSATIONS UNTIL RRS/MVS  
NOTIFIES APPC/MVS ABOUT THE  
STATUS OF RESOURCE MANAGER  
EXITS.**

**Explanation:** APPC/MVS has activated an LU, but cannot allow it to process protected conversations until the system syncpoint manager (RRS) communicates the status of resource manager exits. This is a temporary condition that APPC/MVS will correct, once it receives notification from RRS.

In the message text:

*luname* The name of the logical unit that APPC/MVS activated

**System action:** APPC/MVS activated the LU, but it can process only conversations with a synchronization level of none or confirm.

**Operator response:** If the system does not issue an ATB201I message for this LU, notify the system programmer.

**System programmer response:** If the LU does not become capable of processing protected conversations, search the problem reporting data bases for a fix to the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Detecting Module:** ATBLUPR

**Routing Code:** Hardcopy only

**Descriptor Code:** 4

---

**ATB227I     LOCAL LU *luname* IS *log-status* AS A  
RESOURCE MANAGER WITH  
RRS/MVS. LOCAL LOG: *logname***

**Explanation:** Local LU *luname* has begun resource manager restart processing with the system syncpoint manager (RRS).

In the message text:

*luname* The name of the logical unit that is beginning resource manager restart processing with the system syncpoint manager (RRS).

*log-status*

#### COLD STARTING

The local LU is cold starting because RRS is cold starting.

#### WARM STARTING

The local LU is warm starting because RRS is warm starting.

*logname*

The name of the local LU log.

**System action:** The system continues processing.

Upon completion of resource manager restart processing, the local LU will initiate resynchronization for incomplete units of recovery if any are returned by the syncpoint manager and will process conversations with a synchronization level of syncpt.

**Operator response:** None.

**System programmer response:** None.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRS

**Routing Code:** 2

**Descriptor Code:** 4

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**ATB229E     APPC/MVS WAS NOT ABLE TO  
RESYNCHRONIZE THE INCOMPLETE  
UNIT OF RECOVERY *urid* IN IN-DOUBT  
STATE. MANUAL INTERVENTION IS  
REQUIRED TO RESOLVE THIS UR.**

**Explanation:** The contents of the APPC/MVS logstream cannot be used to resolve incomplete units of recovery in in-doubt state. The logstream may have been deleted and redefined or an internal APPC/MVS error has occurred. As a result, APPC/MVS is unable to automatically resynchronize these URs when the LU is reinitialized.

In the message text:

*luname* The name of the logical unit that is beginning resource manager restart processing with the system syncpoint manager (RRS).

**System action:** The unit of recovery remains in in-doubt state until manual intervention resolves it. APPC/MVS will not perform resynchronization for this UR.

**Operator response:** None.

**System programmer response:** Go to the RRS administration panels and resolve the in-doubt UR identified by *urid*. For more information on how to use

## ATB275I • ATB280E

these panels, see *z/OS MVS Programming: Resource Recovery*.

**Source:** APPC/MVS

**Detecting Module:** ATBPCRR

**Routing Code:** 2

**Descriptor Code:** 7,11

---

**ATB275I SIDEINFO KEYWORD WAS NOT PROCESSED DUE TO SYSTEM ERROR. REASON CODE=*reason-code***

**Explanation:** The Advanced Program-to-Program Communication (APPC) side information file could not be used because of a system error.

In the message text:

*reason-code*      The hexadecimal reason code from dynamic allocation.

**System action:** If the error occurs while the system is processing a START command, the system does not process allocate requests that require side information. If the error occurs while the system is processing a SET command, the system continues processing with the side information file it was using before the operator entered the SET command.

**Operator response:** Enter the START or SET command again. If the error occurs again, notify the system programmer.

**System programmer response:** If the problem persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Detecting Module:** ATBSD93

**Routing Code:** 2

**Descriptor Code:** 3

---

**ATB277E SIDEINFO KEYWORD IGNORED. DATA SET WAS NOT OPENED SUCCESSFULLY.**

**Explanation:** To process a SET or START command, the system tried to process an OPEN macro. While the system was processing the OPEN macro, an error occurred.

**System action:** If the error occurs while the system is processing a START command, the system does not process requests that require side information. If the error occurs while the system is processing a SET command, the system continues processing with the side information file it was using before the operator entered the SET command.

**Operator response:** Enter the START or SET command again.

**System programmer response:** Ensure that the Systems Application Architecture® (SAA®) common programming interface (CPI) communications side information data set specified in parmlib is correct.

**Source:** APPC/MVS

**Detecting Module:** ATBDF30

**Routing Code:** 2

**Descriptor Code:** 3

---

**ATB278E LOGICAL UNIT *unitname* NOT ADDED. TP PROFILE DATA SET WAS NOT OPENED SUCCESSFULLY.**

**Explanation:** To process a SET or START command, the system tried to process an OPEN macro. While the system was processing the OPEN macro, an error occurred.

**System action:** The system does not add or modify the LU in the system configuration.

**Operator response:** After the system programmer corrects the problem, enter the SET command again.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Detecting Module:** ATBDF30

**Routing Code:** 2

**Descriptor Code:** 3

---

**ATB279I SIDEINFO KEYWORD IGNORED. DATA SET SPECIFIED IS ALREADY THE ACTIVE SIDEINFO DATA SET.**

**Explanation:** An Advanced Program-to-Program Communication (APPC) side information file is already active on the system. The file was processed by a previous SET command.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBSD93

**Routing Code:** 2

**Descriptor Code:** 3

---

**ATB280E SIDEINFO KEYWORD IGNORED. SIDEINFO DATA SET WAS NOT ALLOCATED. REASON CODE=*reason-code***

**Explanation:** The system could not allocate the side information file.

In the message text:

*reason-code* The hexadecimal reason code from dynamic allocation.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** 2

**Descriptor Code:** 3

**ATB281E** **LOGICAL UNIT *unitname* NOT ADDED.  
TP PROFILE DATA SET WAS NOT  
ALLOCATED. REASON  
CODE=*reason-code***

**Explanation:** To process a SET or START command, the system tried to open the transaction program (TP) data set. The TP data set was not allocated.

In the message text:

*unitname* The logical unit (LU) name.

*reason-code* The hexadecimal reason code from dynamic allocation.

**System action:** The system does not add or modify the LU in the system configuration.

**Operator response:** After the system programmer corrects the problem, enter the SET command again.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Detecting Module:** ATBDF30

**Routing Code:** 2

**Descriptor Code:** 3

**ATB300E** **Message *msgid* not found.**

**Explanation:** The APPC/MVS administration utility encountered an internal error.

**System action:** The APPC/MVS administration utility does not perform the request.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the following:

- The associated transaction program (TP) profile data set or side information file. Both these files are Virtual Storage Access Method (VSAM) key sequenced data sets (KSDS). For information about copying the VSAM KSDS, see *z/OS DFSMS Access Method Services for Catalogs*.
- A copy of APPC/MVS administration utility processing job that was running when the system issued this message.

**Source:** APPC/MVS

**Detecting Module:** ATBCMPC, ATBFMAX, ATBFMFP, ATBVEAT, ATBMISO

**Routing Code:** 2

**Descriptor Code:** 3

**ATB301I** *data*

**Explanation:** The APPC/MVS administration utility encountered an incorrect delimiter.

In the message text:

*data* The line containing the error.

**System action:** The request fails. The APPC/MVS administration utility continues processing the job. preceding messages further describe the error.

**User response:** Follow the user response for the preceding message(s).

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB302I** *Request request syntax checked successfully - no warning message(s) issued.*

**Explanation:** The APPC/MVS administration utility scanned a request for syntax errors before running the utility processing job.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

## ATB303I • ATB309I

---

**ATB303I APPC administration utility has begun.**

**Explanation:** The APPC/MVS administration utility started successfully.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB304I APPC not present. TPADD and TPMODIFY syntax checked only.**

**Explanation:** Because APPC is not present, the APPC/MVS administration utility only performs syntax checking on the TPADD and TPMODIFY requests.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB305I APPC not present. JCL of TPADD and TPMODIFY requests not checked.**

**Explanation:** Because APPC is not present, the APPC/MVS administration utility only performs syntax checking on the TPADD and TPMODIFY requests. It does not check the JCL syntax.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB306I Only syntax checking will be performed on request(s).**

**Explanation:** An APPC/MVS administration utility job was requested with TYPRUN=SCAN specified.

**System action:** The APPC/MVS administration utility only checks syntax. It does not perform the requests. The APPC/MVS administration utility issues message ATB302I when syntax checking is complete.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB307I APPC administration utility processing completed - one or more requests failed.**

**Explanation:** The APPC/MVS administration utility encountered one or more errors in the utility processing job.

**System action:** The APPC/MVS administration utility fails the requests associated with the errors and completes the others. Preceding messages further describe the errors.

**User response:** Follow the user response for the preceding message(s). Correct and resubmit the failing requests.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB308I APPC admin. utility processing terminated - a severe error was encountered.**

**Explanation:** The APPC/MVS administration utility encountered an internal error.

**System action:** The job fails. The utility processes no more requests. The system may issue an SVC dump.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump if one is issued.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB309I Request request completed successfully.**

**Explanation:** The APPC/MVS administration utility successfully completed the request.

In the message text:

**request** The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB310I Request completed successfully - warning message(s) issued.**

**Explanation:** The APPC/MVS administration utility completed the request, but issued attention messages.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The APPC/MVS administration utility issues a message explaining the error.

**User response:** See the following message for an explanation of the problem. Correct the keyword and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB311I Request request failed.**

**Explanation:** The APPC/MVS administration utility could not successfully complete the specified request.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The request fails but the job continues processing. The APPC/MVS administration utility issues messages explaining the error.

**User response:** See the preceding messages for an

explanation of the problem. Correct the error and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB312I Severe error processing request**

**Explanation:** The APPC/MVS administration utility encountered an internal error while processing a request.

**System action:** The job fails. The system may issue an SVC dump.

**User response:** If necessary, resubmit the job without the failing request.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the following:

- The associated transaction program (TP) profile data set or side information file. Both these files are Virtual Storage Access Method (VSAM) key sequenced data sets (KSDS). For information about copying the VSAM KSDS, see *z/OS DFSMS Access Method Services for Catalogs*.
- A copy of the APPC/MVS administration utility processing job that was running when the system issued this message.
- The SVC dump, if issued.
- The text of this message.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB313I APPC administration utility processing completed successfully.**

**Explanation:** The APPC/MVS administration utility successfully completed processing a job.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB314I APPC administration utility processing completed - warning message(s) issued.**

**Explanation:** The APPC/MVS administration utility completed a request but issued attention messages.

**System action:** The APPC/MVS administration utility

## ATB317I • ATB324I

issues a message explaining the error and providing the name of the failed keyword.

**User response:** See the following message for an explanation of the problem. If necessary, correct the error and run the job again.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB317I Start of statement image records.

**Explanation:** This message marks the start of statement image records in the job output for a TPADD or TPMODIFY request's JCL.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB318I End of statement image records.

**Explanation:** This message marks the end of statement image records in the job output for a TPADD or TPMODIFY request.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB319I No JCL error messages encountered by APPC administration utility.

**Explanation:** The APPC/MVS administration utility did not encounter any JCL errors while processing the job.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB322I No output returned by APPC administration utility for *request*.

**Explanation:** The APPC/MVS administration utility did not generate any output for this request. The SYSSDOUT data set is empty.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE

**ATB324I Request *request* syntax checked successfully - warning message(s) issued.**

**Explanation:** An APPC/MVS administration utility job was requested with TYPRUN=SCAN specified. The APPC/MVS administration utility issued attention messages.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS

- TPDELETE
- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The system continues processing. Preceding messages further describe the error.

**User response:** Correct the request syntax and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB326I Request request syntax checking failed.**

**Explanation:** The APPC/MVS administration utility could not complete syntax checking.

**System action:** The job fails.

**User response:** See *z/OS MVS Planning: APPC/MVS Management* for more information.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB327I Error freeing APPC administration utility storage - Freemain RC: return-code.**

**Explanation:** The APPC/MVS administration utility encountered an error while attempting to free storage.

In the message text:

*return-code*

The return code from the FREEMAIN macro (in decimal).

**System action:** The APPC/MVS administration utility job ends.

**Operator response:** Notify the system programmer. Obtain an ABEND dump.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the ABEND dump and the FREEMAIN macro return code.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB328I Request not performed due to TYPRUN=APPC and APPC not present.**

**Explanation:** Because APPC is not present and TYPRUN=APPC was specified, the APPC/MVS administration utility does not perform the request. Syntax checking only is performed.

**System action:** The APPC/MVS administration does not process the request but continues processing with the next request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB330I Error deleting load module module - Delete RC: return-code**

**Explanation:** The APPC/MVS administration utility encountered an error while attempting to delete the non-APPC transaction scheduler syntax checking exit.

In the message text:

*module* The name of the load module that could not be deleted.

*return-code*

The reason code from the DELETE macro (in decimal).

**System action:** The request fails but the job continues processing.

**User response:** Report the problem to your system administrator.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB332I APPC administration utility failed to free storage.**

**Explanation:** The APPC/MVS administration utility encountered an internal error.

**System action:** The job fails.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

## ATB333I • ATB339I

---

**ATB333I Error closing file ddname - Close RC:  
return-code.**

**Explanation:** The APPC/MVS administration utility encountered an error while trying to close a data set.

In the message text:

*ddname*

The name of the data set that the APPC/MVS administration utility could not close is one of the following:

- SYSSDLIB
- SYSSDOUT
- SYSPRINT

*return-code*

The return code from the CLOSE macro (in decimal).

**System action:** The job fails.

**User response:** If the data set is SYSSDLIB, it is the Virtual Storage Access Method (VSAM) key sequenced data set (KSDS) that contains the transaction program (TP) profile or side information entries. For information about closing a VSAM KSDS see *z/OS DFSMS Managing Catalogs*.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB335I Warning - GENERIC\_ID ignored.**

**Explanation:** The APPC/MVS administration utility encountered a generic userid being used for a standard transaction program (TP). Generic userids are for multi-trans TPs only.

**System action:** The system continues processing.

**User response:** If necessary, correct the error and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB336I Warning - ")" expected following keyword value:**

**Explanation:** A keyword was entered without the closing parenthesis.

**System action:** The request continues with a closing parenthesis assumed after the keyword.

**User response:** Message ATB301I follows this message showing the line with the missing closing parenthesis. If necessary, correct the line and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB337I Warning - Extra data on request line ignored:**

**Explanation:** The APPC/MVS administration utility encountered extra information on a request line. Each request must be on a line by itself.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The system continues processing.

**User response:** If necessary, correct the error and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB338I Warning - No requests to process.**

**Explanation:** A job submitted for APPC/MVS administration utility processing was empty.

**System action:** The system continues processing.

**User response:** If necessary, correct the error and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB339I Warning - No match found for the following TPSCHED\_DELIMITER value:**

**Explanation:** The APPC/MVS administration utility found an end delimiter missing in the input while processing a request. The APPC/MVS administration utility requires an end delimiter to process the request.

**System action:** The APPC/MVS administration utility does not process the request containing the error, but does process the next request, if one exists. The

APPC/MVS administration utility issues message ATB301I after this message showing the start delimiter that is missing a matching end delimiter.

**User response:** Add the end delimiter to the input and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB340I      Warning - Data following last ")" on line is ignored:**

**Explanation:** The APPC/MVS administration utility encountered data after the last parenthesis on a line.

**System action:** The APPC/MVS administration utility continues processing but ignores the data. Message ATB301I follows this message showing the line with the extra data.

**User response:** If necessary, correct the error and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB341I      Syntax checking of request begun.**

**Explanation:** The APPC/MVS administration utility has started syntax checking for request *request*.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The system continues processing.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB342I      Start of JCL messages.**

**Explanation:** This message marks the start of the JCL messages for the APPC/MVS administration utility.

**System action:** The system continues processing.

**Source:** APPC/MVS

**Detecting Module:** ATBSDFMR

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB343I      End of JCL messages.**

**Explanation:** This message marks the end of the JCL messages for the APPC/MVS administration utility.

**System action:** The system continues processing.

**User response:** If all preceding JCL messages for the APPC/MVS administration utility are informational, no action is necessary. Otherwise, correct any errors in the JCL and resubmit the request.

**Source:** APPC/MVS

**Detecting Module:** ATBSDFMR

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB345I      keyword keyword must not be entered as part of Scheduler Data.**

**Explanation:** The APPC/MVS administration utility encountered a keyword in the wrong place in the transaction program (TP) scheduler section of the request. See *z/OS MVS Planning: APPC/MVS Management* for more information on the placement of keywords.

In the message text:

*keyword*

The APPC/MVS administration utility found the ACTIVE keyword in the wrong place.

**System action:** The APPC/MVS administration utility does not process the request containing the out of place keyword. Processing continues with the next request.

**User response:** Correct the placement of the ACTIVE request and resubmit it.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB346I    Error - GENERIC\_ID required when  
TPSCHED\_TYPE is MULTI-TRANS.**

**Explanation:** An attempt was made to add a MULTI\_TRANS transaction program (TP) Profile without giving a GENERIC\_ID.

**System action:** The request fails.

**User response:** Resubmit the request with a GENERIC\_ID.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB347I    Error - SYSTEM, USERID and  
GROUPID keywords are mutually  
exclusive.**

**Explanation:** Two or more of the following mutually exclusive keywords have been entered:

- GROUPID
- SYSTEM
- USERID

**System action:** The request fails but the job continues processing.

**User response:** Change the job to contain only one of the keywords.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB348I    Required keyword(s) missing from  
request request.**

**Explanation:** The APPC/MVS administration utility cannot process a request because one or more required keywords are missing.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

For example, SIADD requires the DESTNAME, MODENAME, PARTNER\_LU, and TPNAME keywords. If any of these keywords is missing, message ATB348I is issued. For information on required keywords, see *z/OS MVS Planning: APPC/MVS Management*.

**System action:** The APPC/MVS administration utility does not process the request but continues processing with the next request.

**User response:** Include the required keywords in the request and resubmit the job.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB349I    Unrecognized line encountered:**

**Explanation:** The APPC/MVS administration utility encountered unexpected input.

**System action:** The request fails but the job continues processing.

**User response:** This message is followed by message ATB301I indicating the line in error. Correct the line and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB350I    Unrecognized keyword on request line:**

**Explanation:** The APPC/MVS administration utility encountered an incorrect keyword while processing a request.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The APPC/MVS administration utility does not process this request but continues processing with the next request. Message ATB301I follows this message showing the line containing the incorrect keyword.

**User response:** If necessary, correct the request containing the incorrect keyword and resubmit it.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB351I      Operation expected - unrecognized line encountered:**

**Explanation:** The APPC/MVS administration utility encountered unrecognized data on the first line of an APPC/MVS administration utility job. The first line of an APPC/MVS administration utility job has to be a request.

**System action:** The request fails, but processing continues with the next request. The APPC/MVS administration utility issues message ATB301I to display the unrecognized data.

**User response:** Ensure that the first line in the APPC/MVS administration utility job is a request. Resubmit the job.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB352I      keyword keyword must be entered as part of Scheduler Data.**

**Explanation:** A keyword was entered outside of the Scheduler Data section of the transaction program (TP) Profile.

In the message text:

**keyword**

The keyword that must be entered as part of Scheduler Data is one of the following:

- CLASS
- DATA\_CLASS
- DATASET\_STATUS
- GENERIC\_ID
- JCL\_DELIMITER
- KEEP\_MESSAGE\_LOG
- MANAGEMENT\_CLASS
- MESSAGE\_DATA\_SET
- STORAGE\_CLASS
- TAILOR\_SYSOUT
- TAILOR\_ACCOUNT

**System action:** The request fails but the job continues processing.

**User response:** Move the specified keyword to the Scheduler Data section by placing it between the TPSCHED\_DELIMITER(XXXX) and the delimiter end.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB353I      Maximum length allowed for keyword is length.**

**Explanation:** Data given for the specified keyword exceeds the maximum allowable length.

In the message text:

**keyword**

The keyword that was specified incorrectly is one of the following:

- ACTIVE
- CLASS
- DATA\_CLASS
- DATASET\_STATUS
- DBTOKEN
- DESTNAME
- GENERIC\_ID
- GROUPID
- JCL\_DELIMITER
- KEEP\_MESSAGE\_LOG
- MANAGEMENT\_CLASS
- MESSAGE\_DATA\_SET
- MODENAME
- PARTNER\_LU
- STORAGE\_CLASS
- TAILOR\_SYSOUT
- TAILOR\_ACCOUNT
- TPNAME
- TPSCHED\_EXIT
- TPSCHED\_DELIMITER
- USERID

**length** The maximum allowable length for the keyword.

**System action:** The request fails but the job continues processing.

**User response:** See z/OS MVS Planning: APPC/MVS Management for information on the keyword. Correct the keyword and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB354I      Minimum length allowed for keyword is length.**

**Explanation:** Data given for the specified keyword is shorter than the minimum allowable length.

In the message text:

**keyword**

The keyword that was specified incorrectly is one of the following:

- ACTIVE
- CLASS
- DATA\_CLASS
- DATASET\_STATUS
- DBTOKEN
- DESTNAME

- GENERIC\_ID
- GROUPID
- JCL\_DELIMITER
- KEEP\_MESSAGE\_LOG
- MANAGEMENT\_CLASS
- MESSAGE\_DATA\_SET
- MODENAME
- PARTNER\_LU
- STORAGE\_CLASS
- TAILOR\_SYSOUT
- TAILOR\_ACCOUNT
- TPNAME
- TPSCHED\_EXIT
- TPSCHED\_DELIMITER
- USERID

*length* The minimum allowable length for the keyword.

**System action:** The request fails. APPC/MVS administration utility processing continues.

**User response:** See *z/OS MVS Planning: APPC/MVS Management* for information on the keyword. Correct the keyword and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB355I Keyword value is not valid for keyword keyword:**

**Explanation:** The data given for the specified keyword is not valid.

In the message text:

*keyword*

The keyword that was specified incorrectly is one of the following:

- ACTIVE
- CLASS
- DATA\_CLASS
- DATASET\_STATUS
- DBTOKEN
- DESTNAME
- GENERIC\_ID
- GROUPID
- JCL\_DELIMITER
- KEEP\_MESSAGE\_LOG
- MANAGEMENT\_CLASS
- MESSAGE\_DATA\_SET
- MODENAME
- PARTNER\_LU
- STORAGE\_CLASS
- SYSTEM
- TAILOR\_SYSOUT
- TAILOR\_ACCOUNT
- TPNAME
- TPSCHED\_EXIT
- TPSCHED\_DELIMITER
- USERID

**System action:** The request fails but the job continues processing.

**User response:** Correct the keyword and resubmit the request. Refer to *z/OS MVS Planning: APPC/MVS Management* for a description of the allowable data for the specified keyword.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB356I Duplicate entry found for keyword keyword.**

**Explanation:** The APPC/MVS administration utility encountered the specified keyword twice.

In the message text:

*keyword*

The keyword that was encountered twice is one of the following:

- ACTIVE
- CLASS
- DATA\_CLASS
- DATASET\_STATUS
- DBTOKEN
- DESTNAME
- GENERIC\_ID
- GROUPID
- JCL\_DELIMITER
- KEEP\_MESSAGE\_LOG
- MANAGEMENT\_CLASS
- MESSAGE\_DATA\_SET
- MODENAME
- PARTNER\_LU
- STORAGE\_CLASS
- SYSTEM
- TAILOR\_SYSOUT
- TAILOR\_ACCOUNT
- TPNAME
- TPSCHED\_EXIT
- TPSCHED\_DELIMITER
- USERID

**System action:** The request fails. The APPC/MVS administration utility continues processing the job.

**User response:** Remove one of the duplicate keywords. Resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB357I Keyword not recognized for request request:**

**Explanation:** The APPC/MVS administration utility encountered a keyword that is incorrect for the given request.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The request fails. The APPC/MVS administration utility continues processing the job. The system issues message ATB301I showing the keyword that is incorrect.

**User response:** Refer to *z/OS MVS Planning: APPC/MVS Management* for the expected keywords for requests. Correct the syntax of the request and resubmit it.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB358I    keyword keyword may not have an associated parameter:**

**Explanation:** The APPC/MVS administration utility encountered a keyword with an associated parameter. The keyword may not have an associated parameter.

In the message text:

*keyword*

The keyword in error is the SYSTEM keyword.

**System action:** The request fails. The APPC/MVS administration utility continues processing the job. The system issues message ATB301I showing the keyword that is incorrect.

**User response:** Refer to *z/OS MVS Planning: APPC/MVS Management* for the correct syntax for the SYSTEM keyword. Correct the syntax of the request and resubmit it.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB360I    Failed to locate Alternate Transaction Scheduler Exit: *module***

**Explanation:** While processing a TPADD or TPMODIFY request of a non-ASCH transaction program (TP) Profile, the system could not locate the alternate

transaction scheduler exit specified with the TPSCHED\_EXIT keyword.

In the message text:

*module* The name of the alternate transaction scheduler exit that could not be found.

**System action:** The request fails. The APPC/MVS administration utility continues processing the job.

**User response:** Ensure that the alternate transaction scheduler exit is not misspelled. Contact the system programmer for further help.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB361I    Alternate Transaction Scheduler Exit is not authorized: *module*.**

**Explanation:** The alternate transaction scheduler exit specified with the TPSCHED\_EXIT keyword is not authorized.

The transaction scheduler exit must meet all the following conditions:

- Reside in LPA or in the LINKLIST concatenation (for example, SYS1.LINKLIB)
- Be in an APF-authorized STEPLIB
- Be linkedited with attributes reusable and reentrant.

In the message text:

*module* The name of the alternate transaction scheduler exit

**System action:** The request fails but the job continues processing.

**User response:** Contact the system programmer for assistance.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB362I    TP ALIAS already exists.**

**Explanation:** The APPC/MVS administration utility encountered a transaction program (TP) alias that was already in use for this TP NAME.

**System action:** The APPC/MVS administration utility does not add the requested alias for this TP name but continues processing the rest of the job.

**User response:** If necessary, choose another alias for this TP name.

## ATB363I • ATB367I

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB363I Severe error returned from APPC administration utility.

**Explanation:** The APPC/MVS administration utility encountered an internal error.

**System action:** The job fails, but the APPC administration tries processing the next job. The system issues an SVC dump.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB364I TP profile already exists.

**Explanation:** The APPC/MVS administration utility encountered a request to add a transaction program (TP) profile for a TP name and level that already exists.

**System action:** The APPC/MVS administration utility does not add the requested TP profile. Processing continues with the next request.

**User response:** Determine why there are two TP profiles with the same name and level. If necessary, choose a different name for the TP profile you are trying to add and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB365I Side information already exists.

**Explanation:** The APPC/MVS administration utility encountered a request to add a side information entry that already exists to a side information file.

**System action:** The APPC/MVS administration utility does not add the requested side information destination name. Processing continues with the next request.

**User response:** Determine why there are two identical side information entries for this side information data set. If necessary, choose a different side information destination name and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB366I Syntax error in TP profile JCL.

**Explanation:** The APPC/MVS administration utility found an error in the JCL for the transaction program (TP) profile.

**System action:** The APPC/MVS administration utility issues messages ATB320I and ATB321I to show the start and end of the statement image records containing the JCL error. The APPC/MVS administration utility does not process this request but continues processing with the next request.

**User response:** Look in the statement image records for the JCL error. Correct the error and resubmit the job.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB367I TP profile not added, dataset full.

**Explanation:** The APPC/MVS administration utility cannot add a requested transaction program (TP) profile to the TP profile data set. This problem is caused by one of the following:

- The TP profile data set is already full.
- The TP profile data set will be too full if the APPC/MVS administration utility adds this TP profile to the data set.
- The number of records for this TP profile exceeds the maximum limit defined for this TP profile data set.

**System action:** The APPC/MVS administration utility does not add the requested TP profile to the data set. Processing continues with the next request.

**User response:** Do the following:

1. Look at the data set definition for the TP profile data set. Check to see whether the number of records for the requested TP profile exceeds the maximum. See *z/OS MVS Planning: APPC/MVS Management* for more information.
2. If the record length of the requested TP profile fits the data set definition, use the REPRO command to copy the VSAM KSDS containing the TP profile data set into a larger object. For more information on the REPRO command, see *z/OS DFSMS Access Method Services for Catalogs*. Then resubmit the job using the larger VSAM KSDS.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB368I Side information not added, dataset full.**

**Explanation:** The APPC/MVS administration utility cannot add the requested side information. Either the side information file is already full or would be full if the APPC/MVS administration utility adds this entry.

**System action:** The APPC/MVS administration utility does not add the requested side information to the data set. Processing continues with the next request.

**User response:** Use the REPRO command to copy the VSAM KSDS containing the side information file into a larger object. For more information on the REPRO command, see *z/OS DFSMS Access Method Services for Catalogs*. Then resubmit the request using the larger VSAM KSDS.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB369I Insufficient authority to perform request.**

**Explanation:** The APPC/MVS administration utility found that the user had no Resource Access Control Facility (RACF) authority to perform the request on this transaction program (TP) profile or side information.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

**System action:** The APPC/MVS administration utility does not process this request but continues processing with the next request.

**User response:** If it is necessary to perform the request on this TP profile or side information, see your RACF administrator.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB370I Second TP profile name specified is an alias.**

**Explanation:** The APPC/MVS administration utility encountered a request to add an alias for a transaction program (TP) name that is already an alias. You cannot have an alias for an alias.

**System action:** The APPC/MVS administration utility does not process this request but continues processing with the next request.

**User response:** Find out what the second TP profile name is an alias for using the TPRETRIEVE request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB371I Specified TP profile not found.**

**Explanation:** The APPC/MVS administration utility could not find the transaction program (TP) name specified in a request. This can be due to one of the following errors:

- The TP name is misspelled in the TP profile
- The APPC/MVS administration utility job specified the wrong TP profile data set
- This TP name does not exist

**System action:** The APPC/MVS administration utility does not process this request but continues processing with the next request.

**User response:** Submit a TPKEYS request to retrieve all the TP names defined in this data set. If necessary, resubmit the request using a correct TP name.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

**ATB372I Specified side information not found.**

**Explanation:** The APPC/MVS administration utility could not find the side information destination name specified in a request. This can be due to one of the following errors:

- The side information destination name was misspelled
- The APPC/MVS administration utility job specified the wrong side information file
- This side information destination name does not exist

**System action:** The APPC/MVS administration utility does not process this request but continues processing with the next request.

**User response:** Submit a SIKEYS request to find the entries defined in this data set. If necessary, correct the error and resubmit the request.

## ATB374I • ATB381E

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB374I The TP profile is registered for test.

**Explanation:** During processing of a TPDELETE request, the APPC/MVS administration utility found that the transaction program (TP) profile is registered for the Time Sharing Option Extensions (TSO/E) TEST command. The APPC/MVS administration utility cannot delete the TP profile until it is unregistered.

**System action:** The APPC/MVS administration utility does not process this request, but continues processing with the next request.

**User response:** Ensure that the TP profile is unregistered and then resubmit the request to delete it.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB375I TPMODIFY of an alias TP profile is not allowed.

**Explanation:** The APPC/MVS administration utility could not process a TPMODIFY request to modify an alias transaction program (TP) profile. You cannot modify an alias TP profile name. A TPMODIFY is only valid for the TP profile itself.

**System action:** The APPC/MVS administration utility does not process this request, but continues processing with the next request.

**User response:** Change the TPMODIFY request to modify the TP profile rather than the alias and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB376I SCHED\_EXIT may not be changed from non-ASCH to ASCH.

**Explanation:** The APPC/MVS administration utility encountered a TPMODIFY request that is not valid. You cannot use a TPMODIFY request to change the scheduler for a TP profile.

**System action:** The APPC/MVS administration utility does not process this request but continues processing with the next request.

**User response:** Delete the TP profile and then submit a TPADD request with the new scheduler name for this TP profile.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB378E Error getting APPC administration utility storage - Getmain RC: return-code.

**Explanation:** The APPC/MVS administration utility encountered an error while attempting to obtain storage.

In the message text:

*return-code* The return code from the GETMAIN macro (in decimal).

**System action:** The APPC/MVS administration utility job ends.

**Operator response:** Notify the system programmer. Obtain an ABEND dump.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the ABEND dump and the GETMAIN macro return code.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB380E APPC admin. utility error - Keyword table contains unknown type for keyword.

**Explanation:** An internal error has occurred in the APPC administration utility.

**System action:** The request fails. The APPC/MVS administration utility continues processing the job.

**User response:** Obtain an ABEND dump if possible. Notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the ABEND dump, if available.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB381E No match found for the following delimiter\_type value:

**Explanation:** The APPC/MVS administration utility found a delimiter missing in the input while processing a request. The APPC/MVS administration utility cannot process the request without the missing delimiter.

In the message text:

*delimiter\_type* The delimiter missing from the input can be one of the following types:

**TPSCHED\_DELIMITER**

Marks the start and end of scheduler statements in the input.

**JCL\_DELIMITER**

Marks the start and end of the JCL in the input.

**System action:** The APPC/MVS administration utility does not process the request containing the error, but does process the next request, if one exists. The APPC/MVS administration utility issues message ATB301I after this message showing the JCL delimiter that is missing its matching delimiter.

**User response:** Add the missing JCL delimiter to the TP profile JCL and resubmit the request.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB383E Unknown error from APPC administration utility for *request* : RC = *return-code*.**

**Explanation:** The APPC/MVS administration utility encountered an internal error.

In the message text:

*request* The APPC/MVS administration utility request was one of the following:

- TPADD
- TPALIAS
- TPDELETE
- TPKEYS
- TPMODIFY
- TPRETRIEVE
- SIADD
- SIDELETE
- SIKEYS
- SIMODIFY
- SIRETRIEVE
- DBRETRIEVE
- DBMODIFY

*return-code*

The reason code for the error.

**System action:** The job fails, but processing continues with the next job. The system issues an SVC dump.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump and the text of this message.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB384E APPC admin. utility error - unexpected output returned for keyword *keyword*.**

**Explanation:** The APPC/MVS administration utility encountered an internal error.

In the message text:

*keyword*

The APPC/MVS administration utility keyword found is one of the following:

- ACTIVE
- CLASS
- DATA\_CLASS
- DATASET\_STATUS
- DBTOKEN
- DESTNAME
- GENERIC\_ID
- GROUPID
- JCL\_DELIMITER
- KEEP\_MESSAGE\_LOG
- MANAGEMENT\_CLASS
- MESSAGE\_DATA\_SET
- MODENAME
- PARTNER\_LU
- STORAGE\_CLASS
- SYSTEM
- TAILOR\_SYSOUT
- TAILOR\_ACCOUNT
- TPNAME
- TPSCHED\_EXIT
- TPSCHED\_DELIMITER
- TPSCHED\_TYPE
- USERID

**System action:** The job fails, but processing continues with the next job. The system issues an SVC dump.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB386E APPC administration utility error - keyword not recognized:**

**Explanation:** The APPC/MVS administration utility encountered an internal error.

**System action:** The job fails, but processing continues with the next job. The APPC/MVS administration utility issues message ATB301I after this message to display the unrecognized data where a keyword was expected. The system issues an SVC dump.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump and the text of message ATB301I.

## ATB389E • ATB393E

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB389E Error opening ddname file.

**Explanation:** The APPC/MVS administration utility encountered an error while trying to open a data set.

In the message text:

*ddname*

The name of the data set that the APPC/MVS administration utility could not open is one of the following:

- SYSSDLIB
- SYSSDOUT
- SYSPRINT

**System action:** The job fails.

**User response:** If the data set is SYSSDLIB, it is the Virtual Storage Access Method (VSAM) key sequenced data set (KSDS) that contains the transaction program (TP) profile or side information entries. For information about opening a VSAM KSDS, see *z/OS DFSMS Access Method Services for Catalogs*.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB390E Required ddname file is not allocated.

**Explanation:** The APPC/MVS administration utility could not allocate a data set.

In the message text:

*ddname*

The name of the data set that the APPC/MVS administration utility could not allocate is one of the following:

- SYSSDLIB
- SYSSDOUT
- SYSPRINT

**System action:** The job fails.

**User response:** This problem may be due to a typographical error. Check the data set names in the job stream. Otherwise, notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB391E Allocation for SYSSDLIB failed. Reason Code = *return-code*.

**Explanation:** The APPC/MVS administration utility encountered an internal error.

In the message text:

*return-code* The return code from SVC 99 (in decimal).

**System action:** The job fails.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB392E Error reading record from dataset: *ddname*.

**Explanation:** The APPC/MVS administration utility encountered an error while trying to read from a data set.

In the message text:

*ddname*

The name of the data set from which the APPC/MVS administration utility could not read is one of the following:

- SYSSDLIB
- SYSSDOUT
- SYSPRINT

**System action:** The job fails.

**User response:** If the name of the data set is SYSSDLIB, ensure that the keyed sequential data set (KSDS), to which SYSSDLIB is pointing, is not corrupted.

Issue the DIAGNOSE command to determine the error. For more information, see *z/OS DFSMS Managing Catalogs*.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

---

### ATB393E Error writing to dataset: *ddname*.

**Explanation:** The APPC/MVS administration utility encountered an error while trying to write to a data set.

In the message text:

*ddname*

The name of the data set to which the APPC/MVS administration utility could not write is one of the following:

- SYSSDLIB

- SYSSDOUT
- SYSPRINT

**System action:** The job fails.

**User response:** If the name of the data set is SYSSDLIB, make sure that the keyed sequential data set (KSDS), to which SYSSDLIB is pointing, is not corrupted.

Issue the DIAGNOSE command to determine the error. For more information, see *z/OS DFSMS Managing Catalogs*.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB394E APPC administration utility error - I/O action requested is not valid: *action*.**

**Explanation:** The APPC/MVS administration utility encountered an I/O error.

In the message text:

*action* The requested I/O action that failed, one of the following:

- I Read-type operation
- O Write-type operation

**System action:** The job fails. The system issues other messages further describing the error.

**User response:** Follow the user response(s) in the accompanying message(s).

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB396E Error loading module - Module Load RC: *return-code*.**

**Explanation:** An error occurred while trying to load the alternate transaction scheduler exit.

In the message text:

*module* The module that could not be loaded.

*return-code*

The return code from the LOAD macro (in decimal).

**System action:** The request fails. The APPC/MVS administration utility continues processing the job.

**User response:** Contact the system programmer for assistance.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB397E ATBSDFMU input PARM not recognized: TYPRUN.**

**Explanation:** An input parameter on the TYPRUN statement was not recognized. The parameter must be one of the following:

- APPC
- RUN
- SCAN

RUN is the default if no parameter is specified.

**System action:** The system continues processing.

**User response:** Put a valid parameter on the TYPRUN statement. Resubmit the job.

**Source:** APPC/MVS

**Routing Code:** Note 11

**Descriptor Code:** -

**ATB400I APPC/MVS TEST SERVICES UNAVAILABLE. REASON= *xxxxxxxx*.**

**Explanation:** Because errors occurred in the test services initialization process, test services will not be available until the next time Advanced Program-to-Program Communication (APPC) is started.

In the message text:

*xxxxxxxx*

The reason code.

**System action:** The system continues processing without test services.

**Operator response:** Notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** APPC/MVS

**Detecting Module:** ATBTEIT

**Routing Code:** 2

**Descriptor Code:** 4

**ATB498I API TRACES STARTED WITH THE DATA SET *dsname* IN USE BY *user* WERE STOPPED BECAUSE OF A SEVERE INTERNAL ERROR**

## ATB499I • ATB500E

**Explanation:** The system encountered a severe error while processing an application program interface (API) trace record, and stopped the trace. Any API trace entries that were collected but not written to the data set might be lost. The error might be an I/O error, or an error in APPC/MVS.

In the message text:

*dsname*

The data set for which all the API traces were stopped.

*user* The user ID under which the ATBTRACE START request was issued for this data set.

**System action:** The system stops all active API traces associated with the data set. For an I/O error, the system issues messages with the prefix AHL, IEC, or IOS, along with this message. If no AHL, IEC, or IOS messages accompany ATB498I, the error is in APPC/MVS, and the system issues a dump of the APPC address space.

**Operator response:** Provide the system programmer with the dump or the I/O-related error messages. If possible, notify the user of the data set that API tracing activity has stopped.

**Application Programmer Response:** If API tracing is still required, submit the ATBTRACE START request again. If an I/O error was encountered for the data set, allocate another data set on a different device and resubmit the ATBTRACE START request, specifying the name of the new data set.

**System programmer response:** If an I/O error was encountered, follow the instructions for the accompanying AHL, IEC, or IOS messages to correct the problem. Otherwise, search problem reporting databases for a fix for the problem. If no fix exists, contact the IBM Support Center, and provide the dump.

**Source:** APPC/MVS

**Detecting Module:** ATBVSTW

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB499I APPC/MVS TRACE ROUTINE IS NOT AVAILABLE BECAUSE OF AN APPC/MVS INTERNAL ERROR. ANY ACTIVE API TRACES WERE STOPPED.**

**Explanation:** The system encountered a severe error while processing an ATBTRACE START or STOP request. APPC/MVS is not able to continue processing application program interface (API) trace requests because it has brought down the trace routine.

**System action:** The system stops all active API traces for all data sets, and requests a dump of the APPC address space.

**Operator response:** Provide the system programmer

with the dump. If requested by the system programmer, bring down the APPC address space and restart APPC.

**System programmer response:** Search problem reporting databases for a fix for the problem. If no fix exists, contact the IBM Support Center, and provide the dump. If API tracing is still required, ask the operator to bring down the APPC address space and restart APPC.

**Source:** APPC/MVS

**Detecting Module:** ATBVSTT

**Routing Code:** 2

**Descriptor Code:** 4

---

**ATB500E APPC INTERNAL ERROR. REASON CODE=***return-code*

**Explanation:** An internal error occurred.

In the message text:

*return-code* A reason code associated with the error.

**System action:** The system issues an SVC dump. The system continues processing.

**Operator response:** Delete the current logical units. This action will prevent any new transaction programs (TPs) from entering the system while the TPs in progress quiesce. Once all the TPs have quiesced, restart APPC.

**System programmer response:** Search problem reporting databases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump and the reason code issued in this message.

**Source:** APPC/MVS

**Routing Code:** 2

**Descriptor Code:** 3

## Chapter 4. ATR Messages

---

**ATR001I SYSRRS COMPONENT TRACE OPTIONS ERROR. EXPECTED *expected* BEFORE *seen***

**Explanation:** The OPTIONS keyword provided on the TRACE command contained syntax errors.

In the message text:

*expected*

is text that should have been specified.

*seen*

is the last recognized text.

**System action:** RRS continues processing, but the SYSRRS component trace is not started.

**Operator response:** Correct any syntax errors in the OPTIONS keyword and issue the TRACE command again.

**System programmer response:** If component trace messages (prefix ITT) accompany this message, see the system programmer response for the ITT messages.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRVMLEX

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR002I SYSRRS COMPONENT TRACE OPTIONS ERROR. FOUND *keyword* INSTEAD OF ONE OF THESE EXPECTED KEYWORDS: *keyword1 keyword2 keyword3 keyword4 keyword5 keyword6 keyword7 keyword8 keyword9 keyword10***

**Explanation:** The operator issued the TRACE command to request RRS component tracing, but none of the expected keywords were found. The following list identifies keywords that might appear in the message and the kind of data expected:

<b>NAME</b>	Resource manager name was expected
<b>LUWID</b>	Logical unit of work identifier was expected
<b>USER</b>	User identifier was expected
<b>END_OF_FILE</b>	Indicates that text was found beyond the expected end of the input string.

In the message text:

*keyword*

is the text that was found.

*keyword1...keyword10*  
is an expected keyword.

**System action:** RRS processing continues, but the SYSRRS component trace is not started.

**Operator response:** Correct any syntax errors in the OPTIONS keyword and issue the TRACE command again.

**System programmer response:** If component trace messages (prefix ITT) accompany this message, see the system programmer response for the ITT messages.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRVMLEX

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR003I SYSRRS COMPONENT TRACE FAILED DUE TO A SERVICE ERROR.**

**Explanation:** RRS was unable to activate its component trace because it encountered an error in one of the services it uses.

**System action:** RRS initialization continues, but the SYSRRS component trace is not active. A symptom record is written to capture the error.

**Operator response:** If the SYSRRS component trace is required, use SETRRS CANCEL to cancel RRS, then restart it. Notify the system programmer.

**System programmer response:** If the problem recurs, provide the symptom record to the IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRVMINT

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR004I SYSRRS COMPONENT TRACE FAILED USING PARMLIB MEMBER *member*, RC=*ctracerC* RSN=*ctracersn*. USING DEFAULT OPTIONS.**

**Explanation:** RRS was unable to activate its component trace using the parmlib member named in the message.

In the message text:

*member*

is the name of the CTnRRSxx parmlib member name that contains SYSRRS component trace options.

*ctracerc*

is the return code from the CTRACE DEFINE macro.

*ctracersn*

is the reason code from the CTRACE DEFINE macro.

**System action:** RRS tries to activate its component trace using default component options.

**Operator response:** None

**System programmer response:** Verify that the specified parmlib member exists and contains no syntax errors. For explanation of the return and reason codes, see the description of the CTRACE macro in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*. If the parmlib member is correct, provide this message text to the IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRVMINT

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR005I    SYSRRS COMPONENT TRACE FAILED  
USING DEFAULT OPTIONS,  
RC=return-code RSN=reason-code**

**Explanation:** RRS was unable to activate its component trace using the default options.

In the message text:

*return-code*

is the return code from the CTRACE DEFINE macro.

*reason-code*

is the reason code from the CTRACE DEFINE macro .

**System action:** RRS initialization continues without the SYSRRS component trace support.

**Operator response:** None

**System programmer response:** Provide this message text to the IBM Support Center. For explanation of the return and reason codes, see the description of the CTRACE macro in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRVMINT

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR006I    SYSRRS COMPONENT TRACE START  
FAILED, MAXIMUM NUMBER OF  
RESOURCE MANAGER NAMES  
EXCEEDED.**

**Explanation:** The OPTIONS parameter (in the CTnRRSxx parmlib member or the reply for a TRACE command) provided more than 16 resource manager names.

**System action:** RRS processing continues, but the SYSRRS component trace is not started.

**Operator response:** If the TRACE command was used to start the SYSRRS component trace, reduce the list of resource manager names to 16 and issue the TRACE command again.

**System programmer response:** If a parmlib member was used to start the SYSRRS component trace, reduce the list of resource manager names to 16, then issue the TRACE command again.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRVMRMN

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR007I    SYSRRS COMPONENT TRACE START  
FAILED, MAXIMUM NUMBER OF  
LUWIDS EXCEEDED.**

**Explanation:** The OPTIONS parameter (in the CTnRRSxx parmlib member or the reply for a TRACE command) provided more than 16 logical unit of work identifiers (LUWIDs).

**System action:** RRS processing continues, but the SYSRRS component trace is not started.

**Operator response:** If the TRACE command was used to start the SYSRRS component trace, reduce the list of LUWIDs to 16 and issue the TRACE command again to start the SYSRRS component trace.

**System programmer response:** If a parmlib member was used to start the component trace, reduce the list of LUWIDs to 16, then issue the TRACE command again.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRVMLID

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR008I    SYSRRS COMPONENT TRACE START  
FAILED, MAXIMUM NUMBER OF  
USERIDS EXCEEDED.**

**Explanation:** The OPTIONS parameter (in the CTnRRSxx parmlib member or the reply for a TRACE

command) provided more than 16 user identifiers.

**System action:** RRS processing continues, but the SYSRRS component trace is not started.

**Operator response:** If the TRACE command was used to start the SYSRRS component trace, reduce the list of USERIDs to 16 and issue the TRACE command again to start the SYSRRS component trace.

**System programmer response:** If a parmlib member was used to start the component trace, reduce the list of USERIDs to 16, then issue the TRACE command again.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRVMUID

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR010I    SYSRRS COMPONENT TRACE START FAILED, MAXIMUM NUMBER OF EIDS EXCEEDED.**

**Explanation:** The OPTIONS parameter (in the CTnRRSxx parmlib member or the reply for a TRACE command) provided more than 16 Enterprise identifiers (EIDs).

**System action:** RRS processing continues, but the SYSRRS component trace is not started.

**Operator response:** If the TRACE command was used to start the SYSRRS component trace, reduce the list of EIDs to 16 and issue the TRACE command again to start the SYSRRS component trace.

**System programmer response:** If a parmlib member was used to start the component trace, reduce the list of EIDs to 16, then issue the TRACE command again.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRVMEID

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR011I    SYSRRS COMPONENT TRACE FAILED DUE TO AN RRS INTERNAL ERROR.**

**Explanation:** RRS was unable to activate its component trace because it encountered an internal error.

**System action:** RRS initialization continues, but the SYSRRS component trace is not active. A dump was taken to capture the error.

**Operator response:** If the SYSRRS component trace is required, use SETRRS CANCEL to cancel RRS and then restart it. Notify the system programmer.

**System programmer response:** If the problem

recurs, provide the symptom record to your IBM Support Center.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRVMINT

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR101I    CANCEL REQUEST WAS RECEIVED FOR RRS.**

**Explanation:** The system has received the SETRRS CANCEL command the operator issued and is now processing the request.

**System action:** SETRRS CANCEL processing continues with syntax verification.

**Operator response:** None.

**System programmer response:** None.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMSFR

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR102I    SETRRS OPTIONS SYNTAX ERROR.    *EXPECTED* expected BEFORE known**

**Explanation:** The SETRRS command contains text that RRS does not recognize as valid input.

In the message text:

*expected*  
is the expected input.

*known*  
is the last known text.

**System action:** The SETRRS command is not processed.

**Operator response:** Correct the syntax and issue the SETRRS command again.

**System programmer response:** None

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMSLA

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR103I    SETRRS OPTIONS SYNTAX ERROR.    FOUND *keyword* INSTEAD OF ONE OF THESE EXPECTED KEYWORDS:  
*keyword1 keyword2 keyword3***

**Explanation:** The operator issued the SETRRS

## ATR104I • ATR120I

CANCEL command, but the command did not contain an expected keyword.

In the message text:

*keyword*

is the text that was found.

*keyword1...keyword3*

is an expected keyword.

**System action:** The system rejects the SETRRS command. RRS remains active.

**Operator response:** Correct the syntax and issue the SETRRS command again.

**System programmer response:** None

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMSLA

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR104I    SHUTDOWN REQUEST WAS RECEIVED FOR RRS.

**Explanation:** The system has received the SETRRS SHUTDOWN command that the operator issued and is now processing the request.

**System action:** Shutdown processing continues.

**Operator response:** None.

**User response:** None.

**System programmer response:** None.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMSFR

---

### ATR105I    RRS *requested\_cmd* REJECTED, RRS *inprogress\_cmd* IS ALREADY IN PROGRESS.

**Explanation:** The requested command is rejected because RRS address space is already in the progress of terminating.

In the message text:

*requested\_cmd*

The name of the requested command.

*inprogress\_cmd*

The name of the command in progress.

**System action:** The SHUTDOWN command is rejected.

**Operator response:** None.

**User response:** None.

**System programmer response:** None.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMSFR

---

### ATR106I    AN UNEXPECTED ERROR OCCURRED DURING RRS SHUTDOWN PROCESSING. RRS CANCEL COMMAND IS ISSUED.

**Explanation:** The RRS SHUTDOWN command was not processed due to an unexpected error. An RRS CANCEL command is issued to bring RRS down.

**System action:** The SHUTDOWN command is rejected. The RRS CANCEL command is issued.

**Operator response:** None.

**User response:** None.

**System programmer response:** None.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMSFR

---

### ATR120I    RRS LOGSTREAM DISCONNECT HAS FAILED FOR LOGSTREAM: *logstreamname*. RC=*return-code*, RSN=*reason-code*

**Explanation:** When trying to disconnect from the specified log stream, RRS encountered an error.

In the message text:

*logstreamname*

is the name of the log stream in error.

*return-code*

is the return code from the IXGCONN macro.

*reason-code*

is the last encountered reason code from the IXGCONN macro.

**System action:** RRS processing continues; it remains connected to the specified log stream.

**Operator response:** Inform the system programmer.

**System programmer response:** Verify that the specified log stream has been correctly defined. If the error disconnecting from it is expected based upon other related system events that indicate similar errors encountered with this log stream, no action might be needed. Otherwise, provide this information to your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMSFR

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR121I SETRRS CANCEL HAS FAILED.**  
**CALLRTM RC=return-code**

**Explanation:** When trying to stop the RRS address space, SETRRS CANCEL processing has encountered an error.

In the message text:

*return-code*

is the return code value from the CALLRTM macro.

**System action:** SETRRS CANCEL processing is ended. RRS remains active.

**Operator response:** Inform the system programmer.

**System programmer response:** For an explanation of the return code, see the description of CALLRTM in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*. Contact your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMSFR

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR122E WRITES TO LOGSTREAM**  
*logstreamname* **DELAYED DUE TO OFFLOAD FAILURE**

**Explanation:** While attempting to write data to the specified logstream, system logger rejected the request, because the coupling facility is full and offload has failed.

In the message text:

*logstreamname*

The name of the logstream in error.

**System action:** The system retries the write periodically until the write is successful. Once the write is successful, this message is deleted by the system.

**Operator response:** Notify the system programmer.

**System programmer response:** Determine why offload cannot occur for the specified logstream and fix the error.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRBMTME

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR123I SETRRS cmdname COMMAND ERROR**  
**-- NOT AUTHORIZED TO ISSUE**  
**COMMAND**

**Explanation:** The operator or console is not authorized to enter the specified command.

---

| In the message text:

| *cmdname*

| The SETRRS command specified.

| **System action:** SETRRS command processing is ended.

| **Operator response:** Contact your installation's security administrator to ensure both you and the console are properly authorized to enter the command that you were attempting.

| **System programmer response:** None.

| **Source:** Resource recovery services (RRS)

| **Detecting Module:** ATRAMSFR

| **Routing Code:** 1,2

| **Descriptor Code:** 12

---

**ATR130I RRS LOGSTREAM CONNECT HAS FAILED FOR MANDATORY**  
*LOGSTREAM* *logstreamname*.  
**RC=return-code, RSN=reason-code**

**Explanation:** RRS initialization has encountered an error connecting to the named log stream, which is required for normal RRS processing.

In the message text:

*logstreamname*

is the log stream in error.

*return-code*

is the return code from the IXGCONN macro.

*reason-code*

is the most recent reason code from the IXGCONN macro.

**System action:** RRS, which cannot function without this log stream, stops its initialization process. The RRS address space is therefore not available for use.

**Operator response:** Contact the system programmer for help with solving the problem.

**System programmer response:** For an explanation of the return and reason codes, see the description of IXGCONN in *z/OS MVS Programming: Assembler Services Reference IAR-XCT*. Verify that all RRS log streams are defined correctly. If necessary, redefine the log streams correctly and reissue the START command for RRS.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

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---

**ATR131I RRS RESTART DENIED - RRS IS ALREADY ACTIVE**

**Explanation:** RRS initialization has determined that an RRS subsystem is already active on this MVS image. This message appears only when the name of the newly started RRS subsystem does not match that of the currently active RRS subsystem.

**System action:** Initialization of the new RRS subsystem is ended. The current RRS subsystem continues processing.

**Operator response:** If possible, use the currently active RRS subsystem. If you do need to stop the current subsystem, issue the SETRRS CANCEL command. If the RRS subsystem was already canceled using the SETRRS CANCEL command, RRS termination may be delayed. Check SYSLOG for an ATR167I message that is issued when RRS termination completes. If this message is not found, check SYSLOG for messages ATR165I and ATR166I. If you find an ATR165I without an ATR166 that has the same ASID and JOBNAME, RRS is waiting for SRB exits in that space to be purged. You can CANCEL/FORCE that space to allow RRS termination to continue. Contact the system programmer for help with solving the problem.

**System programmer response:** Verify any required operator actions.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR132I RRS LOGSTREAM CONNECT HAS FAILED FOR OPTIONAL LOGSTREAM *logstreamname*. RC=return-code, RSN=reason-code**

**Explanation:** RRS initialization cannot connect to the specified optional log stream.

In the message text:

*logstreamname*

is the name of the log stream that RRS tried to connect to.

*return-code*

is the most recent return code from the IXGCONN macro.

*reason-code*

is the most recent reason code from the IXGCONN macro.

**System action:** RRS initialization continues without the optional log stream.

**Operator response:** None.

**System programmer response:** For an explanation of

the return and reason codes, see the description of IXGCONN in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*. Verify that all RRS log streams are defined correctly. Take any steps required to ensure that the problem does not recur.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR133I RRS COULD NOT REGISTER AS A RESOURCE MANAGER. RC=return-code**

**Explanation:** RRS initialization cannot register itself as a resource manager.

In the message text:

*return-code*

is the most recent return code for the Register\_Resource\_Manager callable service.

**System action:** RRS initialization stops. The RRS address space is not available for use.

**Operator response:** Inform your system programmer.

**System programmer response:** For an explanation of the return code from the service, see the description of Register\_Resource\_Manager in *z/OS MVS Programming: Resource Recovery*. Provide the information to your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR134I RRS COULD NOT REGISTER AS AN EXIT MANAGER. RC = return-code**

**Explanation:** RRS initialization cannot register itself as an exit manager.

In the message text:

*return-code*

is the return code from the Set\_Exit\_Information service.

**System action:** RRS initialization is stopped. The RRS address space is not available for use.

**Operator response:** Inform your system programmer.

**System programmer response:** For an explanation of the return code from the service, see the description of Set\_Exit\_Information in *z/OS MVS Programming: Resource Recovery*. Provide this information to your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR135I RRS RESMGR COULD NOT BE ESTABLISHED, RESMGR RC = *return-code***

**Explanation:** RRS initialization cannot establish the RTM resource manager routine it needs to monitor the RRS address space.

In the message text:

*return-code*

is the return code from the RESMGR macro.

**System action:** RRS initialization backs out all processing and brings down the RRS address space. RRS is not available.

**Operator response:** Contact your system programmer.

**System programmer response:** For an explanation of the return code, see the description of the RESMGR macro in *z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU*. Provide the information to your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR137I RRS ATTEMPT TO SET EXITS WITH CONTEXT SERVICES HAS FAILED, RC = *return-code***

**Explanation:** RRS initialization, having registered RRS as both a resource manager and an exit manager, cannot set exits for RRS.

In the message text:

*return-code*

is the return code from the Set\_Exit\_Information service.

**System action:** RRS initialization backs out all processing and brings itself down.

**Operator response:** Notify the system programmer. Examine the return code to determine the error. If it is correctable, correct it and restart RRS. If it is not correctable, inform the system programmer.

**System programmer response:** For an explanation of the return code, see the description of Set\_Exit\_Information in *z/OS MVS Programming: Resource Recovery*. Determine if the error is correctable and, if so, correct it and restart RRS. Otherwise, contact your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR138I ATTEMPT TO BRING UP RRS FAILED, DIAG =*return-code***

**Explanation:** RRS initialization cannot activate RRS because of an internal system error.

In the message text:

*return-code*

is IBM internal diagnostic information

**System action:** RRS initialization backs out all processing and brings RRS down.

**Operator response:** Contact your system programmer.

**System programmer response:** Provide this information to your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR139I RRS WAS UNABLE TO REGISTER FOR AUTOMATIC RESTART. RC = *return-code*, RSN = *reason-code***

**Explanation:** RRS initialization was unable to register with the automatic restart manager.

In the message text:

*return-code*

is the return code from the IXCARM macro.

*reason-code*

is the reason code from the IXCARM macro.

**System action:** RRS initialization continues, but the automatic restart manager will not restart RRS if RRS fails.

**Operator response:** Notify the system programmer.

**System programmer response:** For an explanation of the return and reason codes, see the description of IXCARM in *z/OS MVS Programming: Sysplex Services Reference*. Examine the return and reason codes to determine the problem. If you need automatic restart and you can fix the problem, use the SETRRS CANCEL command to stop RRS, fix the problem, and then restart RRS. If you cannot fix the problem, contact your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

## ATR140I • ATR143I

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR140I RRS READY ATTEMPT FOR ARM HAS FAILED, RC = *return-code*, RSN = *reason-code***

**Explanation:** RRS was unable to mark itself with the automatic restart manager as ready to receive work.

In the message text:

*return-code*  
is the return code from the IXCARM macro.

*reason-code*  
is the reason code from the IXCARM macro.

**System action:** RRS initialization continues, but the automatic restart manager will not restart RRS if RRS fails.

**Operator response:** Notify the system programmer.

**System programmer response:** For an explanation of the return and reason codes, see the description of IXCARM in *z/OS MVS Programming: Sysplex Services Reference*. Examine the return and reason codes to determine the problem. If you need automatic restart and you can fix the problem, use the SETRRS CANCEL command to stop RRS, fix the problem, and then restart RRS. If you cannot fix the problem, contact your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR141I RRS WILL NOT AUTOMATICALLY RESTART.**

**Explanation:** The automatic restart manager will not restart RRS if RRS fails.

**System action:** Message ATR139I or ATR140I accompanies this message. RRS initialization continues, but the automatic restart manager will not restart RRS if it fails.

**Operator response:** Notify the system programmer.

**System programmer response:** Respond as described for the message that accompanies this message.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR142I RRS WAS UNABLE TO Deregister FROM ARM, RC = *return-code*, RSN = *reason-code***

**Explanation:** SETRRS CANCEL processing tried to deregister itself from the automatic restart manager but was unable to do so.

In the message text:

*return-code*  
is the return code from the IXCARM macro.

*reason-code*  
is the reason code from the IXCARM macro.

**System action:** RRS cancel processing continues.

**Operator response:** None.

**System programmer response:** Provide this information to your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMSFR

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR143I RRS HAS BEEN Deregistered FROM ARM.**

**Explanation:** RRS has been deregistered from the automatic restart manager.

**System action:** RRS continues processing; if the RRS address space comes down, it will not be automatically restarted.

**Operator response:** None.

**System programmer response:** Examine any accompanying messages. If these messages indicate that the automatic restart manager is not available and that RRS is still available, determine if you need automatic restart. If so, either wait for automatic restart manager to become available, or take action to make it available, as determined by the response to other accompanying messages related to the automatic restart manager. Once the automatic restart manager is available, issue the SETRRS CANCEL command to stop RRS, followed by the START command to restart RRS.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR144I RRS ENF TYPE 48 LISTENER EXIT COULD NOT BE ESTABLISHED, RC = *return-code***

**Explanation:** RRS could not establish a type 48 listener exit to monitor system logger events.

In the message text:

*return-code*

is the return code from the ENFREQ macro.

**System action:** RRS stops the RRS address space because the ENF type 48 listener exit is essential to the use of all RRS log streams.

**Operator response:** Notify your system programmer.

**System programmer response:** Provide this information to the IBM Support Center. For an explanation of the code, see the description of ENFREQ in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG*.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR145I RRS ENF TYPE 38 LISTENER EXIT COULD NOT BE ESTABLISHED, RC = *return-code***

**Explanation:** RRS could not establish a type 38 listener exit to monitor automatic restart manager events.

In the message text:

*return-code*

is the return code from the ENFREQ macro.

**System action:** RRS continues processing without the listener exit. If, however, the automatic restart manager fails, RRS will be implicitly deregistered from the automatic restart manager. If the RRS address space ends unexpectedly, it will not be automatically restarted.

**Operator response:** None.

**System programmer response:** Provide this information to your IBM Support Center. For an explanation of the code, see the description of ENFREQ in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG*.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR149I RRS INITIALIZATION HAS FAILED. SYSTEM LOGGER IS UNAVAILABLE FOR THIS IPL.**

**Explanation:** In its attempt to connect to log streams, RRS has determined that system logger services will not be available for the duration of this IPL.

**System action:** RRS initialization backs out all processing and brings down the RRS address space.

**Operator response:** Inform your system programmer.

**System programmer response:** If RRS processing is required, system logger must be available. Investigate and resolve the logger problem, then re-IPL the systems and restart RRS.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR150E RRS PROCESSING IS DELAYED PENDING SYSTEM LOGGER SIGNAL. RC=*return-code*, RSN=*reason-code***

**Explanation:** Through its attempt to connect to a log stream, RRS has determined that the system logger is temporarily unable to process the request.

In the message text:

*return-code*

is the most recent return code from the IXGCONN macro.

*reason-code*

is the most recent reason code from the IXGCONN macro.

**System action:** RRS issues message ATR151A to request input and waits for the reply.

**Operator response:** Inform your system programmer.

**System programmer response:** Use the explanation of the return and reason codes, which you can find in the description of IXGCONN in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*, to resolve the error.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR151A SYSTEM LOGGER DELAY WAS NOT RESOLVED. RESOLVE THE DELAY OR REPLY TERMINATE TO TERMINATE RRS.**

**Explanation:** RRS tried to connect to a log stream but

## ATR152I • ATR154I

could not. After waiting for system logger to process its request, RRS issued the request again and again received a response indicating that system logger is temporarily unable to process this connect request. Message ATR150E accompanies this message.

**System action:** RRS waits for system logger to resume handling requests, at which time RRS will retry the connect request, or a reply of TERMINATE, at which time RRS initialization will back out all processing and bring down the RRS address space.

**Operator response:** Inform your system programmer.

**System programmer response:** To make RRS services available, you need to resolve the error condition. See message ATR150E, which accompanies this message, to obtain more information about the error. Once the error is resolved, RRS can begin to process requests.

If you decide you do not need RRS services at this time, or if you cannot resolve the error condition, reply TERMINATE to end RRS initialization and bring down the RRS address space.

If the reply is incorrect, the system issues message ATR152I to notify the operator, then reissues message ATR151A.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR152I THE RESPONSE TO MESSAGE message IS INCORRECT: *reply*

**Explanation:** The operator entered an incorrect response to the specified message.

In the message text:

*message*

The message identifier.

*reply*

The incorrect response.

**System action:** The system reissues the message that received an incorrect reply.

**Operator response:** See the operator response for the indicated message and respond accordingly, if applicable.

**System programmer response:** None.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR153I OPERATOR REQUEST TO BACKOUT RRS INITIALIZATION WAS RECEIVED.

**Explanation:** The operator responded TERMINATE to message ATR152A.

**System action:** RRS initialization backs out all processing and brings down the RRS address space.

**Operator response:** None.

**System programmer response:** None.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR154I RRS RECONNECTION TO MANDATORY LOGSTREAM: *logstreamname* HAS FAILED. IXGCONN RC=*return-code*, RSN=*reason-code*

**Explanation:** Following the restored availability of the system logger address space, RRS cannot successfully reconnect to the specified log stream.

In the message text:

*logstreamname*

is the name of the log stream in error.

*return-code*

is the most recent return code from the IXGCONN macro.

*reason-code*

is the most recent reason code from the IXGCONN macro.

**System action:** If the return and reason code combination from logger indicates that the connect attempt failed so that RRS cannot wait for system logger to notify RRS when the log stream is available, RRS will take a dump and bring itself down. In this event, message ATR156I will accompany this one.

If, however, the failure to reconnect was due to a logger problem that might be temporary, RRS will again try to reconnect to the log stream.

**Operator response:** If RRS comes down, inform your system programmer, otherwise, no action is required.

**System programmer response:** If possible, use the logger return and reason code combination to diagnose and solve the problem that caused the failure. In the system log, see message IXG231I for the named log stream. Message IXG231I provides more detailed information about the reason for the failure. Once the problem has been resolved, use the START command to restart RRS. If you cannot resolve the problem, supply the accompanying dump and system log to your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRBMTME

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR155I RRS RECONNECTION TO OPTIONAL LOGSTREAM: *logstreamname* HAS FAILED. IXGCONN RC=*return-code*, RSN=*reason-code***

**Explanation:** In an attempt to reconnect to the RRS log streams, from which RRS has been disconnected by either system logger or hardware action, RRS has received a response from system logger indicating that the reconnection was not successful. Message IXG231I, issued to the system log, provides more detailed information about the reason for this failure.

In the message text:

*logstreamname*

is the name of the log stream in error.

*return-code*

is the most recent return code from the IXGCONN service.

*reason-code*

is the most recent reason code from the IXGCONN service.

**System action:** RRS remains completely operational but does not use the named log stream.

**Operator response:** Inform your system programmer.

**System programmer response:** If you want RRS to use this log stream, you need the logger return and reason codes to diagnose the problem that caused the failure. In the system log, locate message IXG231I for the named log stream; the message contains more detailed information about the reason for the failure. Resolving the problem might require clearing and/or redefining the log stream in question, which, in turn, means you will first need to bring down RRS. After you fix the log stream problem, you can use the START RRS command to make RRS active again.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRBMTME

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR156I RRS CANCEL PROCESSING INITIATED DUE TO UNAVAILABILITY OF THE *logstreamname* LOGSTREAM.**

**Explanation:** RRS could not reinstate its connection to the named log stream.

In the message text:

*logstreamname*

is the name of the log stream in error.

**System action:** RRS ends its processing and requests a dump. Message ATR154I accompanies this message.

**Operator response:** Inform your system programmer.

**System programmer response:** See the response for message ATR154I. If you cannot solve the problem, provide this information and the associated dump to your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRBMTME

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR157E RRS INITIALIZATION IS UNABLE TO PROCEED. SYSTEM LOGGER IS UNAVAILABLE.**

**Explanation:** In its attempt to connect to its log streams, RRS has determined that the system logger address space is not active.

**System action:** RRS is suspended until system logger becomes available. Message ATR162A accompanies this message.

**Operator response:** Examine the hardcopy log to determine why system logger is not active. If the problem is simply that system logger has not been started, issue the START IXGLOGR command to activate system logger. If there is another reason why system logger is not available, inform your system programmer.

**System programmer response:** Determine why system logger has not started. If it is not possible to bring up system logger, respond TERMINATE to message ATR162A to halt RRS initialization, then provide this information to your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR158I RRS INITIALIZATION IS UNABLE TO PROCEED. THE *lstype* LOGSTREAM *liname* HAS A MAXIMUM BUFFER SIZE OF *actualmaxbufsize* WHICH IS NOT EQUAL TO THE MAXIMUM BUFFER SIZE OF *requiredmaxbufsize* FOR THE MAIN UR LOGSTREAM *mainlname*.**

**Explanation:** When connecting to log stream *liname*, RRS detected that the actual maximum buffer size, *actualmaxbufsize*, for the log stream was not equal to the maximum buffer size, *requiredmaxbufsize*, for the

## ATR159I • ATR160I

MAIN UR log stream, *mainlsname*. To support the log block size that could be written into the log stream, the actual maximum buffer size must be at least as large as the required maximum buffer size for the MAIN UR log stream.

In the message text:

*lstype*

One of the following:

**DELAYED UR**

DELAYED UR log stream.

**RESTART**

RESTART log stream.

*lsname*

name of the log stream in error.

*actualmaxbufsize*

maximum buffer size of the log stream in error

*requiredmaxbufsize*

maximum buffer size of the RRS MAIN UR log stream.

*mainlsname*

name of the RRS MAIN UR log stream.

**System action:** RRS backs out of initialization.

**Operator response:** Inform your system programmer.

**System programmer response:**

1. Examine the rules for defining the logging structure for the RRS log stream *logstreamname*. See *z/OS MVS Programming: Resource Recovery*.
2. Change the LOGR policy to ensure that the logging structure for log stream *logstreamname* meets the requirement. See *z/OS MVS Setting Up a Sysplex*.
3. Restart RRS.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR159I    RRS INITIALIZATION IS UNABLE TO PROCEED. LOGSTREAM *logstreamname* HAS A MAXIMUM BUFFER SIZE OF *actualmaxbufsize* WHICH IS LESS THAN THE MINIMUM SIZE OF *minimummaxbufsize*.**

**Explanation:** When connecting to the named log stream, RRS detected that the actual maximum buffer size for the log stream was less than the minimum allowable maximum buffer size.

In the message text:

*logstreamname*

is the name of the log stream.

*actualmaxbufsize*

is the actual maximum buffer size.

*minimummaxbufsize*

is the minimum allowable maximum buffer size required to support the minimum log block size that could be written into the log stream.

**System action:** RRS backs out of initialization.

**Operator response:** Inform your system programmer.

**System programmer response:**

1. Verify the requirement for defining the log structure for the RRS log stream *logstreamname*. See *z/OS MVS Programming: Resource Recovery*.
2. Change the LOGR policy to ensure that the logging structure for log stream *logstreamname* meets the requirement. See *z/OS MVS Setting Up a Sysplex*.
3. Restart RRS.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR160I    LOGSTREAM *logstreamname* HAS A MAXIMUM BUFFER SIZE OF *actualmaxbufsize* WHICH IS LESS THAN THE MINIMUM SIZE OF *minimummaxbufsize*. LOG RECORDS MAY BE TRUNCATED.**

**Explanation:** After connecting to the named log stream, RRS determined that the actual maximum buffer size for the log stream was less than the minimum required maximum buffer size. Log records that exceed the actual maximum buffer size will be truncated when written to the log.

In the message text:

*logstreamname*

is the name of the log stream.

*actualmaxbufsize*

is the actual maximum buffer size.

*minimummaxbufsize*

is the minimum allowable buffer size required to support the maximum log block size that could be written into the log stream.

**System action:** RRS initialization continues.

**Operator response:** Inform your system programmer.

**System programmer response:** Determine whether the potential truncation of log records is acceptable.

If it is not acceptable,

1. Verify the requirements for defining the log structure for log stream *logstreamname*. See *z/OS MVS Programming: Resource Recovery*.

2. Across the sysplex, stop each RRS group member that is using the log stream.
3. Change the LOGR policy to ensure that the log structure for *logstreamname* meets the requirement. See *z/OS MVS Setting Up a Sysplex*.
4. Across the sysplex, restart each RRS group member that was stopped to change the LOGR policy.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

#### ATR161I    RRS TERMINATING DUE TO FAILURE OF *task*

**Explanation:** A task critical to RRS operation has failed and cannot be reinstated.

In the message text:

*task*

One of the following:

- RRS SERIALIZATION SERVER
- RRS MASTER SERVER
- NON-RRS MASTER SERVER
- RRS TERMINATION SERVER
- RRS SERVER ETXR

**System action:** RRS terminates. An ABEND and dump can accompany this message. The automatic restart manager (ARM) will, if possible, restart RRS.

**Operator response:** Capture the dump, if one is issued. Notify your system programmer. If RRS does not restart automatically, use the START command to restart RRS.

**System programmer response:** Review the dump and logrec to identify the original error. Supply this information to the IBM Support Center.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRBMETX

**Routing Code:** 2,10

**Descriptor Code:** 4

#### ATR162A    START THE SYSTEM LOGGER ADDRESS SPACE OR REPLY TERMINATE TO TERMINATE RRS.

**Explanation:** RRS initialization cannot proceed because the system logger address space is not available.

**System action:** RRS initialization is suspended, waiting for the system logger address space to start.

Once the system logger address space starts, this message is deleted.

**Operator response:** Inform your system programmer.

**System programmer response:** To make RRS services available, you need to resolve the error condition. See message ATR157E, which accompanies this message, to obtain more information about the error. Once the error is resolved, RRS can begin to process requests.

If you decide you do not need RRS services at this time, or if you cannot resolve the error condition, reply TERMINATE to end RRS initialization and bring down the RRS address space.

If the reply is incorrect, the system issues message ATR152I to notify the operator, then reissues message ATR162A.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

#### ATR163E    RRS HAS DETECTED A POSSIBLE PROBLEM WITH STRUCTURE *structurename* FOR LOGSTREAM *logstreamname* INTERVENTION MAY BE REQUIRED. RRS WILL CONTINUE TO ATTEMPT LOGSTREAM RECONNECTION.

**Explanation:** In an attempt to reconnect to the RRS log streams, from which RRS has been disconnected by either system logger or hardware action, RRS has received a response from system logger indicating a structure problem on the couple data set. Message ATR154I will accompany this message.

In the message text:

*structurename*

is the name of the couple data set structure.

*logstreamname*

is the name of the log stream.

**System action:** RRS continues to try to reconnect to the log streams, but any outstanding RRS requests are suspended until RRS can reconnect.

**Operator response:** Notify your system programmer if this message remains outstanding for a significant amount of time (more than 10-15 minutes, for example).

**System programmer response:** If this message has remained outstanding for a significant amount of time, you might need to define the RRS log stream(s) to another structure. Once the structure problem has been resolved, RRS will reconnect to the desired log streams without any further intervention.

If you want to stop the suspension of RRS requests, issue the SETRRS CANCEL command, which will stop RRS and not allow automatic restart. When you have

## ATR164I • ATR168I

resolved the structure problem, issue the START RRS command to restart RRS.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRBMTME

**Routing Code:** 1,2

**Descriptor Code:** 3

---

### ATR164I RRS DOES NOT SUPPORT DASD-ONLY LOGSTREAMS

**Explanation:** RRS connected to its log streams and found at least one was a DASD-only log stream. RRS does not support DASD-only log streams.

**System action:** The RRS address space terminates.

**Operator response:** Start RRS with coupling facility log streams or notify your system programmer.

**System programmer response:** Define coupling facility log streams for RRS.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR165I RRS EXITS FOR *jobname* IN ASID *asid* ARE BEING PURGED.

**Explanation:** The RRS address space has terminated. RRS RESMGR processing is attempting to purge the outstanding SRB exits that RRS scheduled to the named jobname/ASID.

In the message text:

*jobname*  
is the jobname.

*asid*  
is the ASID.

**System action:** The RRS RESMAG waits for the purge to complete.

**Operator response:** None.

**System programmer response:** None.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRAMRM

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR166I RRS EXITS FOR *jobname* IN ASID *asid* ARE BEING PURGED. *DIAG=diag*

**Explanation:** RRS RESMGR processing has completed purging the outstanding SRB exits that RRS scheduled to the named jobname/ASID. A zero DIAG value indicates a successful purge. A non-zero DIAG value indicates that the target space is terminating or has terminated and only SRBs that have been scheduled, but not dispatched, have been purged.

In the message text:

*jobname*  
is the jobname.

*asid*  
is the ASID.

*diag*  
is an internal diagnostic code.

**System action:** RRS RESMAG processing continues.

**Operator response:** None.

**System programmer response:** None.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRAMRM

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR167I RRS RESMGR PROCESSING COMPLETED.

**Explanation:** RRS RESMGR processing is complete.

**System action:** RRS address space termination is complete and RRS is no longer active.

**Operator response:** None.

**System programmer response:** None.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRAMRM

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR168I JOB *jobname* DOES NOT HAVE THE PROPER ACCESS FOR THE REQUEST.

**Explanation:** The job does not have the proper access to the RRS resource named in the ICH408I message, where *jobname* is the jobname.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRFMSRV, ATRFMSRV,  
ATRAMMSG

**System action:** The request is rejected.

**System programmer response:** Obtain the proper

authorization to the RRS resource named in the ICH408I message.

**Routing Code:** 1, 2

**Descriptor Code:** 12

**ATR169I RRS HAS UNSET EXITS FOR RESOURCE MANAGER *rmname* REASON *reason***

**Explanation:** RRS has unset the named resource manager's RRS exits for the reason noted in this message.

In the message text:

*rmname*

is the name of the resource manager whose exits were unset.

*reason*

One of the following:

**REQUESTED**

The resource manager's exit failed exit requested RRS to unset the resource manager's exits.

**FAILED**

The resource manager's exit failed exit failed.

**BAD RETCODE**

The resource manager's exit failed exit returned an invalid return code to RRS.

**EXIT MANAGER UNAVAILABLE**

The resource manager is unset from the SHUTDOWN command.

**UNREGISTERED**

The resource manager unregistered as a resource manager.

**System action:** The system continues, but the named resource manager cannot participate in syncpoint operations managed by RRS until it sets exits with RRS again.

**Operator response:** Notify your system programmer.

**System programmer response:** Use the RRS panels to determine if the resource manager automatically detected the error and set exits with RRS again. If not, restarting the resource manager will usually cause the resource manager to set exits with RRS. If restarting the resource manager is not acceptable or does not resolve the problem, contact the IBM Support Center.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRBMSER

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR170I RM *rmname* WAS DELETED.**

**Explanation:** The resource manager was deleted from the RRS resource manager logs and from all RRS systems in the logging group.

**Note:** This message is written to the system where the RM was last active. If the last active system for the RM was not determined, the message is written to the system that originated the delete RM request.

In the message text:

*rmname*

The name of the deleted resource manager.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRFMDRM

**System action:** The system continues, but the named resource manager cannot participate in syncpoint operations managed by RRS until it sets exits with RRS again.

**Operator response:** None.

**User response:** None.

**System programmer response:** None.

**ATR171I RM *rmname* WAS DELETED FROM THE RRS LOGS. THE RM MAY REMAIN ON SOME SYSTEMS.**

**Explanation:** An error occurred while processing the RemovRM request. The resource manager was deleted from the RRS resource manager logs and from some of the RRS systems in the logging group. However, it may remain on some RRS systems in the logging group.

**Note:** This message is written to the system where the RM was last active. If the last active system for the RM was not determined, then the message is written to the system that originated the Delete RM request.

In the message text:

*rmname*

The name of the deleted resource manager.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRFMDRM

**System action:** The system continues, but the named resource manager cannot participate in syncpoint operations managed by RRS until it sets exits with RRS again.

**Operator response:** None.

**User response:** None.

**System programmer response:** None.

---

**ATR172E LOGSTREAM *logstreamname* HAS A MAXIMUM BUFFER SIZE OF *actualmaxbufsize* WHICH IS LESS THAN THE MINIMUM SIZE OF *minmaxbufsize*. REDEFINE THE LOG STREAM TO THE MINIMUM BUFFER SIZE.**

**Explanation:** After connecting to the named log stream, RRS determined that the actual maximum buffer size for the log stream was less than the minimum required maximum buffer size.

In the message text:

*logstreamname*  
The name of the log stream.

*actualmaxbufsize*  
The actual maximum buffer size.

*minmaxbufsize*  
The minimum allowable buffer size required to support the maximum log block size that could be written into the log stream.

**System action:** RRS continues to run without the log stream. Once the log stream is defined, this message is DOMed.

**Operator response:** Notify your system programmer.

**System programmer response:** Change the LOGR policy to ensure that the log structure for log stream *logstreamname* meets the requirement. For more information about defining log streams, see *z/OS MVS Programming: Resource Recovery*.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRBMTME

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR173E OPTIONAL LOGSTREAM *logstreamname* IS NOW REQUIRED. AN RM HAS REQUESTED THE USE OF THE LOGSTREAM.**

**Explanation:** The named log stream is optional during RRS startup. During the setting of exits an RM has indicated that it wants to be able to set and retrieve RM metadata. However, the log stream is not defined so RRS cannot connect to it.

In the message text:

*logstreamname*  
The name of the log stream.

**System action:** RRS prevents the RM from setting any exits. Once the log stream is defined, this message is DOMed.

**Operator response:** Notify your system programmer.

**System programmer response:** Define the log

stream and update the LOGR policy to ensure that the log structure for log stream *logstreamname* is present and meets the requirement. For more information about defining log streams, see *z/OS MVS Programming: Resource Recovery*.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRBMSEI ATRBMTME

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR201I RRS COLD START IS IN PROGRESS.**

**Explanation:** RRS is cold starting.

**System action:** RRS clears out its logs to eliminate any work that might have been active.

**Operator response:** None.

**System programmer response:** None.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRTMRRS

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR202D GAP FOUND IN *logstreamname*. REPLY RETRY TO RETRY OR ACCEPT TO ACCEPT THE DATA LOSS**

**Explanation:** RRS has encountered a gap in the named log stream. Possible reasons for the gap are:

- At least one of the DASD volumes that back up the named log stream is offline.
- Incorrect SHAREOPTIONS were specified when the log stream data sets or staging data sets were defined. If you have multiple systems in the sysplex and you use SMS to manage DASD data sets, you must specify VSAM SHAREOPTIONS(3,3) for log stream data sets and staging area data sets.

In the message text:

*logstreamname*  
is the name of the affected log stream.

**System action:** RRS waits for your reply. If you reply RETRY, RRS assumes the log stream gap has been repaired; it will retry the function. If you reply ACCEPT, RRS will treat the gap as a loss of data, which might cause mixed outcome transactions, or if the gap is in the RM.DATA log stream, RRS will terminate.

**Operator response:** Reply RETRY if the log stream gap has been fixed, reply ACCEPT if the gap cannot be fixed, or contact the system programmer.

If the gap is in the RM.DATA log stream, replying ACCEPT will cause RRS to terminate, as RRS cannot tolerate a data loss in the RM.DATA log stream.

**System programmer response:** Try to fix the gap in the named log stream. For example, verify that all the required backup DASD volumes are online, then reply RETRY. If you cannot fix the gap, reply ACCEPT.

If the gap is in the RM.DATA log stream and you cannot fix the gap, remember that replying ACCEPT will cause RRS to terminate. You will then have to cold start each member of the RRS group. The RRS group name is the second qualifier of the log stream name. See *z/OS MVS Programming: Resource Recovery* for a description of how to cold start RRS, and for a description of some actions to avoid because they can cause problems that require a cold start.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRTMRRS

**Routing Code:** 1,2

**Descriptor Code:** 12

#### ATR203I    RRS COULD NOT READ FROM THE RM DATA LOG.

**Explanation:** RRS was unable to read data from the RM.DATA log stream.

**System action:** RRS initialization ends, and RRS is stopped. The system writes a LOGREC entry to describe the failure and issues message ATR215I to the system log to provide details on the error.

**Operator response:** Notify the systems programmer.

**System programmer response:** To determine why RRS failed while reading from the RM.DATA log stream, obtain the LOGREC entry for this failure. If possible, fix the problem and restart RRS. Otherwise, notify the IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRTMRRS

**Routing Code:** 1,2

**Descriptor Code:** 12

#### ATR204I    RRS COULD NOT WRITE TO THE RM DATA LOG.

**Explanation:** RRS was unable to write data to the RM.DATA log stream.

**System action:** RRS initialization ends, and RRS is stopped. The system writes a LOGREC entry to describe the failure and issues message ATR215I to the system log to provide details on the error.

**Operator response:** Notify the systems programmer.

**System programmer response:** To determine why RRS failed while writing to the RM.DATA log stream, obtain the LOGREC entry for this failure. If possible, fix the problem and restart RRS. Otherwise, notify the IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRTMRRS

**Routing Code:** 1,2

**Descriptor Code:** 12

#### ATR205I    RRS COULD NOT CLEAR THE *logstreamname* LOGSTREAM

**Explanation:** RRS was unable to clear the data from the named log stream.

In the message text:

*logstreamname*

is the name of the affected log stream.

**System action:** RRS initialization ends, and RRS is stopped. The system writes a LOGREC entry to describe the failure and issues message ATR302I to the system log to provide details on the error.

**Operator response:** Notify the systems programmer.

**System programmer response:** To determine why RRS failed while clearing the named log stream, obtain the LOGREC entry for this failure. If possible, fix the problem and restart RRS. Otherwise, delete and redefine the log stream and restart RRS.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRTMRRS

**Routing Code:** 1,2

**Descriptor Code:** 12

#### ATR206I    RRS COULD NOT SUCCESSFULLY PERFORM LOG TAKEOVER FOR THIS SYSTEM

**Explanation:** RRS was unable to process the outstanding units of recovery for this system.

**System action:** RRS initialization ends, and RRS is stopped. A LOGREC entry is written to describe the failure.

**Operator response:** Notify the systems programmer.

**System programmer response:** To determine why RRS failed, obtain the LOGREC entry for this failure. If possible, fix the problem and restart RRS. Otherwise, contact your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRTMRRS

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR207I RRS COULD NOT CREATE NAME TOKEN PAIR. RC = *return-code***

**Explanation:** RRS initialization has been unable to create a name/token pair to hold the RRS STOKEN.

In the message text:

*return-code*

is the return code from the IEANTCR service

**System action:** RRS initialization ends. The RRS address space is not available.

**Operator response:** Inform your system programmer.

**System programmer response:** Report the problem and the diagnostic information in the message to your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR208I RRS HAS DETECTED A LOG DATA LOSS ON *lstype* LOGSTREAM *lname* AFTER CONNECTING TO A NEW VERSION OF THE LOGSTREAM. OLD VERSION: *oldlsversion* NEW VERSION: *newlsversion***

| **Explanation:** RRS has detected a log data loss as the result of connecting to a new version of the named log stream. The log stream version changed because the log stream definition in the LOGR policy for the named log stream was deleted and then redefined.

In the message text:

*lstype*

One of the following log streams:

**MAIN UR**

The RRS MAIN.UR log stream.

**DELAYED UR**

The RRS DELAYED.UR log stream.

**RESTART**

The RRS RESTART log stream.

**RM META DATA**

The RRS RM Meta Data log stream.

*lname*

The name of the log stream.

*oldlsversion*

The version of the log stream that RRS expected to connect to. The identifier is the GMT timestamp created when the log stream was defined.

*newlsversion*

The version of the log stream that RRS connected

to. The identifier is the GMT timestamp created when the log stream was defined.

**System action:** The system action depends on which log stream encountered the version mismatch.

**MAIN UR**

Each resource manager that might have had data in the MAIN.UR log stream is marked as having potentially lost log data. During resource manager restart, RRS issues a unique return code to inform the resource manager of the possible data loss.

RRS initialization continues.

**DELAYED UR**

Each resource manager that might have had data in the DELAYED.UR log stream is marked as having potentially lost log data. During resource manager restart, RRS issues a unique return code to inform the resource manager of the possible data loss.

Additionally, RRS marks all UR state log entries in the MAIN.UR log as heuristic mixed, and it issues message ATR219I whenever it marks URs as heuristic mixed during log takeover processing.

RRS initialization continues.

**RESTART**

Each resource manager that might have had data in the RESTART log stream is marked as having potentially lost log data. During resource manager restart, RRS issues a unique return code to inform the resource manager of the possible data loss.

RRS initialization continues.

**RM META DATA**

No action is taken against the RM Meta Data log and RRS initialization continues.

RRS issues message ATR209I whenever it marks a resource manager as having lost log data.

**Operator response:** Inform your system programmer.

**System programmer response:** Check the hardcopy log to see if messages ATR209I and ATR219I were issued as a result of this error. Follow the system programmer response for whichever additional message that was issued.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 4

---

**ATR209I RESOURCE MANAGER *rmname* MAY HAVE LOST LOG DATA.**

**Explanation:** RRS has detected inaccessible data in its logs, and the lost data potentially affects the named resource manager.

Message ATR208I or ATR212I provides more information about why the RRS log data was inaccessible.

In the message text:

*rname*

is the resource manager name.

**System action:** Whenever the named resource manager restarts with RRS, it will be notified that RRS has lost log data in which the resource manager had interest.

**Operator response:** Inform your system programmer.

**System programmer response:** Use any accompanying message to determine what caused RRS to lose log data for this resource manager.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRTMTLE

**Routing Code:** 11

**Descriptor Code:** 6

---

**ATR210E INACCESSIBLE LOG DATA DETECTED  
ON THE RRS RM DATA LOGSTREAM  
*logstreamname***

**Explanation:** RRS has encountered inaccessible log data in the named RM DATA log stream. RRS cannot access the log data either because data has been lost or there is an uncorrectable gap in the log data.

In the message text:

*logstreamname*

is the name of the log stream.

**System action:** The system issues message ATR218I, which will explain the effects on the system.

**Operator response:** Notify your system programmer.

**System programmer response:** To clear the problem with the named RM DATA log, you must cold start each member of the RRS group. The RRS group name is the second qualifier of the log stream name. See *z/OS MVS Programming: Resource Recovery* for a description of how to cold start RRS, and for a description of some actions to avoid because they can cause problems that require a cold start.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 11

---

**ATR211I RRS DETECTED AN ATTEMPT TO  
COLD START WHILE RRS WAS  
ACTIVE. REASON: *reason***

**Explanation:** RRS detected an attempt to cold start RRS while RRS was active. The condition that caused RRS to detect the cold start request is indicated by *reason*.

In the message text:

*reason*

is one of the following:

**LOGSTREAM VERSION MISMATCH.**

RRS detected a different version of the RM.DATA log stream from the one to which RRS was previously connected.

**LOGSTREAM EMPTY.**

RRS detected an empty RM.DATA log stream after a cold start.

**System action:** The RRS address space ends.

**Operator response:** Inform your system programmer.

**System programmer response:**

Depending on the *reason*, determine why the problem occurred:

**LOGSTREAM VERSION MISMATCH**

Determine whether deleting and redefining the RM.DATA log stream definition in the LOGR policy was intentional. If so, to avoid this message in the future, cancel all active RRS members in the RRS group before redefining the RM data log stream.

If it was not intentional, rework your procedures for redefining the RRS RM.DATA log stream to avoid the problem in the future.

**LOGSTREAM EMPTY**

Determine if an application other than RRS could have deleted log data from the RM.DATA log stream. If so, either change the application or remove its authorization to update the log stream. Only RRS should have update authority to the RM.DATA log stream.

If there were no applications in the installation that could have deleted log data from the RM.DATA log stream, contact your IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 4

---

**ATR212I RRS DETECTED LOG DATA LOSS ON LOGSTREAM *logstreamname* DUE TO INACCESSIBLE LOG DATA. LOG DATA FROM *lowgmt* TO *highgmt* ARE AFFECTED.**

**Explanation:** RRS detected inaccessible log data on the named log stream. RRS cannot access the log data either because data has been lost or there is an uncorrectable gap in the log data.

In the message text:

*logstreamname*  
is the name of the log stream.

*lowgmt*  
is either the GMT timestamp of the last valid log data before the inaccessible range of log data or \*\*\*\*\* if there was no valid log data before the inaccessible range.

*highgmt*  
is the GMT timestamp of the first accessible log data after the inaccessible range of log data or the GMT time when the message was issued if there is no valid log data after the inaccessible range.

**System action:** The message reports the fact that RRS detected inaccessible log data. Subsequent messages provide more specific information about how the error affect processing.

The subsequent messages that RRS might issue are:  
ATR209I, ATR210E, ATR238E, ATR218I or ATR219I.

**Operator response:** Notify your system programmer.

**System programmer response:** Determine if message ATR209I, ATR210E, ATR238E, ATR218I or ATR219I were issued in addition to this message. Follow the system programmer response provided for the additional message.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 4

---

**ATR213I ARCHIVE FAILED FOR LOGSTREAM *Isname* DUE TO THE LACK OF A CONNECTED ARCHIVE LOG.**

**Explanation:** RRS did not move the log entries from log stream *Isname* to the ARCHIVE log during an RRS cold start because RRS was not connected to the ARCHIVE log stream.

In the message text:

*Isname*  
is the name of the log stream.

**System action:** RRS continues cold start processing, but all entries in the named log stream are deleted.

**Operator response:** Inform your system programmer.

**System programmer response:** This message records the fact that RRS was unable to move existing UR state log entries from log stream *Isname* to the ARCHIVE log stream when RRS cold started.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRTMFLG

**Routing Code:** 11

**Descriptor Code:** 6

---

**ATR214I RRS FAILED TO FLUSH ALL LOG DATA FOR LOGSTREAM *Isname* DUE TO INACCESSIBLE LOG DATA. LOG DATA FROM *lowgmt* TO *highgmt* ARE AFFECTED.**

**Explanation:** While moving entries to the archive log during an RRS cold start, RRS encountered inaccessible log data in the named log stream. RRS cannot access the log data either because data has been lost or there is an uncorrectable gap in the log data.

In the message text:

*Isname*  
is the name of the log stream.

*lowgmt*  
is either the GMT timestamp of the last valid log data before the inaccessible range of log data or \*\*\*\*\* if there was no valid log data before the inaccessible range.

*highgmt*  
is the GMT timestamp of the first accessible log data after the inaccessible range of log data or the current GMT time when the message was issued if there is no valid log data after the inaccessible range.

**System action:** RRS moves the accessible entries in log stream *Isname* to the archive log and writes an entry to the archive log that describes the time range of the log data that might be missing. This information is displayed to a user of the RRS ISPF panels when browsing the archive log stream.

The RRS address space continues cold start processing.

**Operator response:** Inform your system programmer.

**System programmer response:** This message records the fact that, during a cold start, RRS was unable to move existing UR state log entries from log stream *Isname* to the archive log.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRTMFLG

**Routing Code:** 11

**Descriptor Code:** 6

---

**ATR215I RRS ENCOUNTERED AN ERROR  
READING LOGSTREAM *lname***  
**RETURN CODE:** *return-code* **REASON  
CODE:** *reason-code* **DIAGNOSTIC  
INFORMATION:** *diag1 diag2 diag3 diag4*

**Explanation:** While reading log stream *lname*, RRS encountered the error this message reports. Additional messages will describe how the error affects processing.

This message includes the return code and reason code from the system logger browse service, IXGBRWSE, as well as additional diagnostic information that system logger returns.

In the message text:

*lname*  
is the name of the log stream.

*return-code*  
is the return code from IXGBRWSE.

*reason-code*  
is the reason code from IXGBRWSE.

*diag1*  
is the diagnostic field, ANSAA\_DIAG1, from the IXGBRWSE answer area. For the meaning of this field, see the description of the return code and reason code from IXGBRWSE in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

*diag2*  
is the diagnostic field, ANSAA\_DIAG2, from the IXGBRWSE answer area. For the meaning of this field, see the description of the return code and reason code from IXGBRWSE in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

*diag3*  
is additional diagnostic information for the use of the IBM Support Center.

*diag4*  
is additional diagnostic information for the use of the IBM Support Center.

**System action:** RRS returns the error to the function that requested the log read.

**Operator response:** Inform your system programmer.

**System programmer response:** Use the description of IXGBRWSE in *z/OS MVS Programming: Assembler Services Reference ABE-HSP* to determine the reason for the error and the action required for the specific error.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2**Descriptor Code:** 4

---

**ATR216I RRS ENCOUNTERED AN ERROR  
WRITING TO LOGSTREAM *lname***  
**RETURN CODE:** *return-code* **REASON  
CODE:** *reason-code* **DIAGNOSTIC  
INFORMATION:** *diag1 diag2 diag3 diag4*

**Explanation:** While trying to write to log stream *lname*, RRS encountered the error this message reports. Additional messages will describe how the error affects processing.

This message includes the return code and reason code from the system logger write service, IXGWRITE, as well as additional diagnostic information that system logger returns.

In the message text:

*lname*  
is the name of the log stream.

*return-code*  
is the return code from IXGWRITE.

*reason-code*  
is the reason code from IXGWRITE.

*diag1*  
is the diagnostic field, ANSAA\_DIAG1, from the IXGWRITE answer area. For the meaning of this field, see the description of the return code and reason code from IXGWRITE in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

*diag2*  
is the diagnostic field, ANSAA\_DIAG2, from the IXGWRITE answer area. For the meaning of this field, see the description of the return code and reason code from IXGWRITE in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

*diag3*  
is additional diagnostic information for the use of the IBM Support Center.

*diag4*  
is additional diagnostic information for the use of the IBM Support Center.

**System action:** RRS returns the error to the function that requested the log write.

**Operator response:** Inform your system programmer.

**System programmer response:** Use the description of IXGWRITE in *z/OS MVS Programming: Assembler Services Reference ABE-HSP* to determine the reason for the error and the action required for the specific error. If you cannot resolve the problem, contact the IBM Support Center.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 4

**ATR217I RRS DETECTED A NEW VERSION OF THE *lstype* LOGSTREAM *logstreamname* AFTER RECONNECTING TO THE LOGSTREAM. OLD VERSION: *oldlsversion* NEW VERSION: *newlsversion***

**Explanation:** RRS reconnected to a new version of the log stream identified in this message. The log stream version changed because the log stream definition in the LOGR policy for the named log stream was being deleted and then redefined.

In the message text:

***lstype***  
One of the following log streams:

**RM DATA**  
The RRS RM.DATA log stream.

**MAIN UR**  
The RRS MAIN.UR log stream.

**DELAYED UR**  
The RRS DELAYED.UR log stream.

**RESTART**  
The RRS RESTART log stream.

**RM META DATA**  
The RRS RM Meta Data log stream.

***logstreamname***  
The name of the log stream.

***oldlsversion***  
The version of the log stream RRS expected to connect to. The identifier is the GMT timestamp created when the log stream was defined.

***newlsversion***  
The version of the log stream RRS connected to. The identifier is the GMT timestamp created when the log stream was defined.

**System action:** The RRS address space ends so that a restart of RRS can resolve the log stream version change and the resulting log data loss.

**Operator response:** Restart RRS.

**System programmer response:** None.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 3

---

**ATR218I *processname* PROCESS HAS FAILED DUE TO INACCESSIBLE LOG DATA IN LOGSTREAM *logstreamname*.**

**Explanation:** The named RRS process has failed because inaccessible log data was detected in the named log stream.

Message ATR210E or ATR238E accompanies this message.

In the message text:

***processname***  
One of the following:

**INITIALIZATION**  
RRS address space initialization.

**TAKEOVER**  
RRS log takeover for a failed peer instance of RRS.

**RM RESTART**  
Resource manager begin restart.

**RETRIEVE LOGNAME**  
Resource manager retrieve logname.

**SET LOGNAME**  
Resource manager set logname.

**RM DATA LOG COMPRESSION**  
RM.DATA log compression.

**MAIN UR LOG COMPRESSION**  
MAIN.UR log compression.

**DELAYED UR LOG COMPRESSION**  
DELAYED.UR log compression.

**RECONNECT**  
Log stream reconnection.

**SET META DATA**  
Resource manager set Meta Data.

**RETRIEVE META DATA**  
Resource manager RETRIEVE Meta Data.

**RM META DATA LOG COMPRESSION**  
RM Meta Data log compression.

***logstreamname***  
The name of the log stream.

**System action:** The system action depends on the process that failed, as follows:

**INITIALIZATION**  
RRS initialization has failed. All subsequent attempts to restart RRS will fail.

**TAKEOVER**  
Log takeover processing has failed. Takeover processing has been disabled on this system.

**RM RESTART**

Resource manager restart processing has failed. Resource manager restart processing has been disabled on this system.

**RETRIEVE LOGNAME**

An attempt by a resource manager to retrieve a logname has failed. All subsequent logname retrieval attempts will fail.

**SET LOGNAME**

An attempt by a resource manager to set its logname has failed. All subsequent attempts to set a resource manager logname will fail.

**RM DATA LOG COMPRESSION**

Log stream compression for the RM.DATA log stream has failed. Compression processing for the RM.DATA log stream has been disabled.

**MAIN UR LOG COMPRESSION**

Log stream compression for the MAIN.UR log stream has failed. Compression processing for the MAIN.UR log stream has been disabled.

**DELAYED UR LOG COMPRESSION**

Log stream compression for the DELAYED.UR log stream has failed. Compression processing for the DELAYED.UR log stream has been disabled.

**RECONNECT**

The RRS address space failed because there is inaccessible log data in the RM.DATA log named *lstreamname*.

**SET META DATA**

An attempt by a resource manager to set Meta Data has failed. All subsequent attempts to set Meta Data for a resource manager may fail.

**RETRIEVE META DATA**

An attempt by a resource manager to retrieve Meta Data has failed. All subsequent attempts to retrieve Meta Data for a resource manager may fail.

**RM DELETE ENTRY**

An attempt to delete a resource manager from the named log stream has failed. Subsequent attempts to delete the resource manager from the log stream may fail.

**RM META DATA DELETE ENTRY**

An attempt by a resource manager to delete its Meta Data entry via the Set RM Metadata service has failed. Subsequent attempts to set Meta Data for a resource manager may fail.

**RM META DATA LOG COMPRESSION**

Log stream compression for the named RM Meta Data log stream has failed. Compression processing for the RM Meta Data log stream has been disabled.

**Operator response:** Notify your system programmer.

**System programmer response:** To clear the error in the RM data log stream, you must cold start all the RRS

members in the RRS group. The RRS group name is the second qualifier of the log stream name. See *z/OS MVS Programming: Resource Recovery* for a description of how to cold start RRS, and for a description of some actions to avoid because they can cause problems that require a cold start.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 4

**ATR219I RRS HAS MARKED SOME UR STATE LOG ENTRIES AS HEURISTIC MIX WHILE PERFORMING LOG TAKEOVER FOR *sysname***

**Explanation:** RRS has marked one or more URs as heuristic mixed because it detected inaccessible log data while performing log takeover for system *sysname*.

The state of the resources associated with the UR might be questionable.

In the message text:

*sysname*

is the system name of the system for which RRS is performing takeover.

**System action:** RRS has marked as heuristic mixed any URs that were **in-prepare** or **in-doubt** that might be missing more recent log entries.

Log takeover processing continues.

**Operator response:** Inform your system programmer.

**System programmer response:** Ensure that the resources are returned to a consistent state.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRTMTLE

**Routing Code:** 11

**Descriptor Code:** 6

**ATR220A GAP FOUND IN *logstreamname*. REPAIR THE GAP AND REPLY TO ATR202D**

**Explanation:** RRS has encountered a gap in the named log stream.

In the message text:

*logstreamname*

is the name of the affected log stream.

**System action:** RRS waits for the reply to message ATR202D. If the reply is RETRY, RRS assumes the gap has been repaired and will retry the function. If the reply is ACCEPT, RRS will proceed with processing the loss of data.

**Operator response:** In response to message

## ATR221I • ATR224I

ATR202D, reply RETRY if the gap condition has been fixed or reply ACCEPT if the gap condition can not be fixed, or notify the system programmer.

**System programmer response:** Try to fix the gap in the named log stream, then reply RETRY. Otherwise, reply ACCEPT.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRTMRRS

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR221I RRS IS JOINING RRS GROUP groupname ON SYSTEM sysname

**Explanation:** RRS is starting on the named system and joining the RRS log group identified by *groupname*.

In the message text:

*groupname*  
is the RRS log group name.

*sysname*  
is the name of system on which this instance of RRS is running.

**System action:** RRS initialization continues.

**Operator response:** If the log group name is correct, none. Otherwise, notify the system programmer.

**System programmer response:** If the log group name is not correct, you might need to stop RRS and restart it with the correct log group name.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR222I LOG TAKEOVER FOR SYSTEM sysname HAS COMPLETED SUCCESSFULLY.

**Explanation:** The system issuing this message has detected that RRS on the named system is not active and moved the RRS UR State log entries for the named system into the RRS Restart logstream. This allows the resource managers that were active on the named system to restart with RRS on some other system.

In the message text:

*sysname*  
is the system name of the system whose log entries are being taken over.

**System action:** Processing continues.

**Operator response:** None.

**System programmer response:** None.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRTMLTK

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR223I LOG TAKEOVER FOR SYSTEM sysname HAS FAILED.

**Explanation:** RRS failed to complete log takeover for system *sysname*.

In the message text:

*sysname*  
is the system name of the system whose log entries are being taken over.

**System action:** Processing continues. RRS will continue to attempt log takeover for *sysname* until it is successful, at which point message ATR222I is issued.

**Operator response:** None.

**System programmer response:** Check the hardcopy log to determine if a subsequent attempt to take over the log entries for system *sysname* was successful. RRS issues message ATR222I whenever log takeover completes successfully.

If log takeover continues to fail, contact IBM service and provide the diagnostic data from the message.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRTMLTK

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR224I UNRECOVERABLE ERRORS HAVE OCCURRED WHILE PROCESSING THE UR, UR IS MARKED DAMAGED. URID = *uridentifier*.

**Explanation:** RRS has encountered one or more unrecoverable errors while processing the unit of recovery (UR) identified in the message; RRS cannot process subsequent sync-point requests for the UR.

In the message text:

*uridentifier*  
is the identifier of the UR marked as damaged.

**System action:** RRS continues processing, but it has marked the UR as damaged.

**User response:** None

**Operator response:** None

**System programmer response:** There is no specific response to this message, which generally appears as part of an RRS problem described in other messages. Respond to the problem the other messages describe,

which might require manual intervention to ensure resource consistency.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRSMSPT

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR225D CANCEL DELAYED. REPLY WAIT, BACKOUT, OR COMMIT TO RESOLVE INDOUBT UR. URID=uridentifier**

**Explanation:** An operator issued the CANCEL command for an application, but there is a sync-point operation in progress for an **in-doubt** UR (unit of recovery). Before CANCEL command processing can continue, the **in-doubt** UR must be resolved.

In the message text:

**uridentifier**

UR identifier for the **in-doubt** UR.

**System action:** The system delays CANCEL command processing until the UR is resolved. When the UR is resolved, the system processes the CANCEL command.

**User response:** None.

**Operator response:** Notify the system programmer.

**System programmer response:** Reply WAIT to cause RRS to wait for the distributed sync-point manager (DSRM) to resolve the **in-doubt** UR. If replying WAIT does not work, you can use the RRS panels to resolve the **in-doubt** UR. IBM recommends that you do not use the FORCE command after you have replied WAIT.

If you do not want RRS to wait for the DSRM, reply either:

- BACKOUT to cause RRS to complete the sync-point operation and back out the changes
- COMMIT to complete the sync-point operation and commit the changes.

If you need more information about the UR identified in the message, you can use the RRS panels, both to find out more about the UR and to resolve the UR.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRSMSPT

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR226D MEMTERM DELAYED. REPLY WAIT, BACKOUT, OR COMMIT TO RESOLVE INDOUBT UR. URID=uridentifier**

**Explanation:** The system tried to end an address space, but there is a sync-point operation in progress

for an **in-doubt** UR (unit of recovery). Before the address space can end, the **in-doubt** UR must be resolved.

In the message text:

**uridentifier**

UR identifier for the **in-doubt** UR.

**System action:** The system does not end the address space; it delays ending the address space until the UR is resolved. When the UR is resolved, the system ends the address space.

**User response:** None.

**Operator response:** Notify the system programmer.

**System programmer response:** Reply WAIT to cause RRS to wait for the distributed sync-point manager (DSRM) to resolve the **in-doubt** UR. If replying WAIT does not work, you can use the RRS panels to resolve the **in-doubt** UR. IBM recommends that you do not use the FORCE command after you have replied WAIT.

If you do not want RRS to wait for the DSRM, reply either:

- BACKOUT to cause RRS to complete the sync-point operation and back out the changes
- COMMIT to complete the sync-point operation and commit the changes.

If you need more information about the UR identified in the message, you can use the RRS panels, both to find out more about the UR and to resolve the UR.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRSMSPT

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR227D CANCEL DELAYED. REPLY WAIT, BACKOUT, OR COMMIT TO RESOLVE INDOUBT UR. URID=uridentifier**

**Explanation:** An operator issued the CANCEL command for an application, but there is a sync-point operation in progress for an **in-doubt** UR (unit of recovery), and the program needed to resolve the **in-doubt** UR is no longer available. Before CANCEL command processing can continue, the **in-doubt** UR must be resolved.

In the message text:

**uridentifier**

UR identifier for the **in-doubt** UR

**System action:** The system delays CANCEL command processing until the UR is resolved. When the UR is resolved, the system processes the CANCEL command.

**User response:** None.

## ATR228D • ATR229D

**Operator response:** Notify the system programmer.

**System programmer response:** Reply WAIT to cause RRS to wait for the distributed sync-point manager (DSRM) to resolve the **in-doubt** UR. If replying WAIT does not work, you can use the RRS panels to resolve the **in-doubt** UR. IBM recommends that you do not use the FORCE command after you have replied WAIT.

If you do not want RRS to wait for the DSRM, reply either:

- BACKOUT to cause RRS to complete the sync-point operation and back out the changes
- COMMIT to complete the sync-point operation and commit the changes.

If you need more information about the UR identified in the message, you can use the RRS panels, both to find out more about the UR and to resolve the UR.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMAPT

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR228D MEMTERM DELAYED. REPLY WAIT, BACKOUT, OR COMMIT TO RESOLVE INDOUBT UR. URID=uridentifier

**Explanation:** The system tried to end an address space, but there is a sync-point operation in progress for an **in-doubt** UR (unit of recovery), and the program needed to resolve the **in-doubt** UR is no longer available. Before the address space can end, the **in-doubt** UR must be resolved.

In the message text:

**uridentifier**

UR identifier for the **in-doubt** UR (unit of recovery).

**System action:** The system does not end the address space; it delays ending the address space until the UR is resolved. When the UR is resolved, the system ends the address space.

**System programmer response:** Restart the required resource manager and reply WAIT to cause RRS to wait for the distributed sync-point manager (DSRM) to resolve the **in-doubt** UR. If replying WAIT does not work, you can use the RRS panels to resolve the **in-doubt** UR. IBM recommends that you do not use the FORCE command after you have replied WAIT.

If you do not want to wait for the DSRM, reply either:

- BACKOUT to cause RRS to complete the sync-point operation and back out the changes
- COMMIT to complete the sync-point operation and commit the changes.

If you need more information about the UR identified in the message, you can use the RRS panels, both to find out more about the UR and to resolve the UR.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRSMSPT

**Routing Code:** 1,2

**Descriptor Code:** 12

---

### ATR229D CANCEL DELAYED. REPLY WAIT, BACKOUT, OR COMMIT TO RESOLVE INDOUBT UR. URID=uridentifier

**Explanation:** An operator issued the CANCEL command for an application, but there is a sync-point operation in progress for an **in-doubt** UR (unit of recovery). Before CANCEL command processing can continue, the **in-doubt** UR must be resolved.

In the message text:

**uridentifier**

UR identifier for the **in-doubt** UR.

**System action:** The system delays CANCEL command processing until the UR is resolved. When the UR is resolved, the system processes the CANCEL command.

**User response:** None.

**Operator response:** Notify the system programmer.

**System programmer response:** Reply WAIT to cause RRS to wait for the server distributed sync-point manager (SDSRM) to resolve the **in-doubt** UR. If replying WAIT does not work, you can use the RRS panels to resolve the **in-doubt** UR. IBM recommends that you do not use the FORCE command after you have replied WAIT.

If you do not want RRS to wait for the SDSRM to resolve the UR, reply either:

- BACKOUT to cause RRS to complete the sync-point operation and back out the changes
- COMMIT to complete the sync-point operation and commit the changes.

If you need more information about the UR identified in the message, you can use the RRS panels, both to find out more about the UR and to resolve the UR.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRBMECY

**Routing Code:** 1,2

**Descriptor Code:** 12

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**ATR230D MEMTERM DELAYED. REPLY WAIT,  
BACKOUT, OR COMMIT TO RESOLVE  
INDOUBT UR. URID=uridentifier**

**Explanation:** The system tried to end an address space, but there is a sync-point operation in progress for an **in-doubt** UR (unit of recovery). Before the address space can end, the **in-doubt** UR must be resolved.

In the message text:

**uridentifier**

UR identifier for the **in-doubt** UR.

**System action:** The system does not end the address space; it delays ending the address space until the UR is resolved. When the UR is resolved, the system ends the address space.

**User response:** None.

**Operator response:** Notify the system programmer.

**System programmer response:** Reply WAIT to cause RRS to wait for the server distributed sync-point manager (SDSRM) to resolve the **in-doubt** UR. If replying WAIT does not work, you can use the RRS panels to resolve the **in-doubt** UR. IBM recommends that you do not use the FORCE command after you have replied WAIT.

If you do not want RRS to wait for the SDSRM to resolve the UR, reply either:

- BACKOUT to cause RRS to complete the sync-point operation and back out the changes
- COMMIT to complete the sync-point operation and commit the changes.

If you need more information about the UR identified in the message, you can use the RRS panels, both to find out more about the UR and to resolve the UR.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRBMECY

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR231D CANCEL DELAYED. REPLY WAIT,  
BACKOUT, OR COMMIT TO RESOLVE  
INDOUBT UR. URID=uridentifier**

**Explanation:** An operator issued the CANCEL command for an application, but there is a sync-point operation in progress for an **in-doubt** UR (unit of recovery), and the program needed to resolve the **in-doubt** UR is no longer available. Before CANCEL command processing can continue, the **in-doubt** UR must be resolved.

In the message text:

**uridentifier**

UR identifier for the **in-doubt** UR

**System action:** The system delays CANCEL command processing until the UR is resolved. When the UR is resolved, the system processes the CANCEL command.

**User response:** None.

**Operator response:** Notify the system programmer.

**System programmer response:** Restart the required server distributed sync-point resource manager (SDSRM) and reply WAIT to cause RRS to wait for the SDSRM to resolve the **in-doubt** UR. If replying WAIT does not work, you can use the RRS panels to resolve the **in-doubt** UR. IBM recommends that you do not use the FORCE command after you have replied WAIT.

If you do not want RRS to wait for the SDSRM to resolve the UR, reply either:

- BACKOUT to cause RRS to complete the sync-point operation and back out the changes
- COMMIT to complete the sync-point operation and commit the changes.

If you need more information about the UR identified in the message, you can use the RRS panels, both to find out more about the UR and to resolve the UR.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRBMECY

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR232D MEMTERM DELAYED. REPLY WAIT,  
BACKOUT, OR COMMIT TO RESOLVE  
INDOUBT UR. URID=uridentifier**

**Explanation:** The system tried to end an address space, but there is a sync-point operation in progress for an **in-doubt** UR (unit of recovery), and the program needed to resolve the **in-doubt** UR is no longer available. Before the address space can end, the **in-doubt** UR must be resolved.

In the message text:

**uridentifier**

UR identifier for the **in-doubt** UR (unit of recovery).

**System action:** The system does not end the address space; it delays ending the address space until the UR is resolved. When the UR is resolved, the system ends the address space.

**System programmer response:** Restart the required server distributed sync-point manager (SDSRM) and reply WAIT to cause RRS to wait for the SDSRM to resolve the **in-doubt** UR. If replying WAIT does not work, you can use the RRS panels to resolve the **in-doubt** UR. IBM recommends that you do not use the

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FORCE command after you have replied WAIT.

If you do not want RRS to wait for the SDSRM to resolve the UR, reply either:

- BACKOUT to cause RRS to complete the sync-point operation and back out the changes
- COMMIT to complete the sync-point operation and commit the changes.

If you need more information about the UR identified in the message, you can use the RRS panels, both to find out more about the UR and to resolve the UR.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRBMECY

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR233D CANCEL DELAYED. REPLY BACKOUT, OR COMMIT TO RESOLVE INDOUBT UR. URID=uridentifier**

**Explanation:** An operator issued the CANCEL command to cancel the server distributed sync-point resource manager (SDSRM), but there is a sync-point operation in progress for an **in-doubt** UR (unit of recovery), and the SDSRM being canceled is the program needed to resolve the **in-doubt** UR. Before CANCEL command processing can continue, the **in-doubt** UR must be resolved.

In the message text:

**uridentifier**

UR identifier for the **in-doubt** UR

**System action:** The system delays CANCEL command processing until the UR is resolved. When the UR is resolved, the system processes the CANCEL command.

**User response:** None.

**Operator response:** Notify the system programmer.

**System programmer response:** Reply either:

- BACKOUT to cause RRS to complete the sync-point operation and back out the changes
- COMMIT to complete the sync-point operation and commit the changes.

IBM recommends that you do not use the FORCE command when this message is outstanding.

If you need more information about the UR identified in the message, you can use the RRS panels, both to find out more about the UR and to resolve the UR.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRBMECY

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR234D MEMTERM DELAYED. REPLY BACKOUT, OR COMMIT TO RESOLVE INDOUBT UR. URID=uridentifier**

**Explanation:** The system tried to end an address space where the server distributed sync-point resource manager (SDSRM) program was running, but there is a sync-point operation in progress for an **in-doubt** UR (unit of recovery), and the SDSRM being ended is the program needed to resolve the **in-doubt** UR. Before the address space can end, the **in-doubt** UR must be resolved.

In the message text:

**uridentifier**

UR identifier for the **in-doubt** UR

**System action:** The system does not end the address space; it delays ending the address space until the UR is resolved. When the UR is resolved, the system ends the address space.

**User response:** None.

**Operator response:** Notify the system programmer.

**System programmer response:** Reply either:

- BACKOUT to cause RRS to complete the sync-point operation and back out the changes
- COMMIT to complete the sync-point operation and commit the changes.

IBM recommends that you do not use the FORCE command when this message is outstanding.

If you need more information about the UR identified in the message, you can use the RRS panels, both to find out more about the UR and to resolve the UR.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRBMECY

**Routing Code:** 1,2

**Descriptor Code:** 12

---

**ATR235I RRS FAILED TO JOIN THE RRS XCF GROUP RC=joinrc RSN=joinrsn**

**Explanation:** RRS was unable to join its XCF group.

In the message text:

**joinrc**

The return code from the IXCJOIN macro.

**joinrsn**

The reason code from the IXCJOIN macro.

**System action:** RRS initialization is terminated.

**User response:** None.

**Operator response:** None.

**System programmer response:** Investigate IXCJOIN's return and reason codes in the *z/OS MVS Programming: Sysplex Services Reference*.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

| **ATR237I RRS HAS DETECTED A LOG DATA LOSS ON RM META DATA**  
| **LOGSTREAM *lstream*. RRS COULD NOT CONNECT TO THE LOG STREAM BUT AN OLDER VERSION WAS USED LAST.**  
| **OLD VERSION: *oldlsversion***

| **Explanation:** RRS has detected a log data loss as a result of not connecting to a previous version of the named log stream. The log stream version changed because the log stream definition in the *LOGR* policy for the named log stream was deleted.

| In the message text:

| *lstream*  
| The name of the log stream.

| *oldlsversion*  
| Identifies the version of the log stream RRS expected to connect to. The identifier is the GMT timestamp created when the log stream was defined.

| **System action:** RRS initialization continues without the optional log stream.

| **User response:** None.

| **Operator response:** Notify your system programmer.

| **System programmer response:** Determine what caused the log stream to be deleted or why RRS cannot connect to it.

| **Source:** Resource recovery services (RRS)

| **Detecting Module:** ATRRMRRS

| **Routing Code:** 1,2

| **Descriptor Code:** 12

| **ATR238E INACCESSIBLE LOG DATA DETECTED ON THE RRS RM META DATA LOGSTREAM *logstreamname***

| **Explanation:** RRS has encountered inaccessible log data in the named RM META DATA log stream. RRS cannot access the log data either because data has been lost or there is an uncorrectable gap in the log data.

| In the message text:

| **logstreamname**

| The name of the log stream.

| **System action:** The system issues message ATR218I, which will explain the effects on the system.

| **User response:** None.

| **Operator response:** Notify your system programmer.

| **System programmer response:** To clear the problem with the named RM META DATA log, consider either deleting and redefining the RM META DATA log stream or restarting RRS with a different RRS log group name. In either case, you will need to bring down all members of the RRS group, redefine (define) the log streams and then restart the members of the RRS log group.

| **Source:** Resource recovery services (RRS)

| **Detecting Module:** ATRAMINI

| **Routing Code:** 1,2

| **Descriptor Code:** 12

| **ATR301E RRS IS UNABLE TO COMPRESS *lstype* LOGSTREAM *logstreamname***

| **Explanation:** RRS cannot compress the log stream identified in this message because of unexpected errors from system logger.

| Message ATR216I, ATR302I or ATR303I, issued to the system log, provides additional information about the error.

| In the message text:

| *lstype*  
| One of the following log streams:

| **MAIN UR**

| The RRS MAIN.UR log stream.

| **DELAYED UR**

| The RRS DELAYED.UR log stream.

| **RM DATA**

| The RRS RM DATA log stream.

| **RESTART**

| The RRS RESTART log stream.

| **RM META DATA**

| The RRS RM Meta Data log stream.

| *logstreamname*

| The name of the log stream.

| **System action:** RRS is unable to delete log data from the identified log stream. The log stream will continue to increase in size until the error condition is corrected.

| Once RRS is again able to compress the log stream, or if the RRS address space terminates, this message is deleted.

| **Operator response:** Locate message ATR216I,

## ATR302I • ATR303I

- | ATR302I or ATR303I in the system log and notify the system programmer.
- | **System programmer response:** To determine the error and take appropriate action, locate message ATR216I, ATR302I or ATR303I in the system log. Use the system programmer response to correct the error condition, if possible.
- | Otherwise, monitor the size of the log stream by using the system logger policy utility to list the number of data sets in the log stream. To prevent the named log stream from encountering a log stream full condition, you might need to provide data set directory extent records in the system logger couple data set.
- | **Source:** Resource recovery services (RRS)
- | **Detecting Module:** ATRAMINI
- | **Routing Code:** 1,2
- | **Descriptor Code:** 3

---

**ATR302I RRS ENCOUNTERED AN ERROR COMPRESSING LOGSTREAM *lstreamname* RETURN CODE: *return-code* REASON CODE: *reason-code* DIAGNOSTIC INFORMATION: *diag1 diag2 diag3 diag4***

**Explanation:** While compressing the log stream named in the message, RRS encountered an error. No log data is deleted from this log stream until the error is corrected. Message ATR301E accompanies this message.

In the message text:

*lstreamname*  
is the name of the log stream.

*return-code*  
is the return code from the system logger delete service, IXGDELET.

*reason-code*  
is the reason code from the system logger delete service, IXGDELET.

*diag1*  
is the diagnostic field, ANSAA\_DIAG1, from the IXGDELET answer area. For the meaning of this field, see the description of the return code and reason code from IXGDELET in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

*diag2*  
is the diagnostic field, ANSAA\_DIAG2, from the IXGDELET answer area. For the meaning of this field, see the description of the return code and reason code from IXGDELET in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

*diag3*

is additional diagnostic information for the use of the IBM Support Center.

*diag4*

is additional diagnostic information for the use of the IBM Support Center.

**System action:** RRS cannot delete log data from the log stream until the error is corrected.

The log stream will continue to increase in size until the error condition is corrected.

**Operator response:** Inform your system programmer.

**System programmer response:** Use the description of IXGDELET in *z/OS MVS Programming: Assembler Services Reference ABE-HSP* to determine the reason for the error and the action required for the specific error.

**Source:** Resource recovery services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 11

**Descriptor Code:** 6

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**ATR303I RRS ENCOUNTERED AN ERROR COMPRESSING LOGSTREAM *logstreamname* RETURN CODE: *return-code* REASON CODE: *reason-code* DIAGNOSTIC INFORMATION: *diag1 diag2 diag3 diag4 diag5***

**Explanation:** RRS encountered an error while either reading or updating the delete point for a system in log stream *logstreamname*.

No log data is deleted from this log stream until the error is corrected. Message ATR301E is also issued for this condition.

In the message text:

*logstreamname*  
is the name of the log stream.

*return-code*  
is the return code from the system logger service.

*reason-code*  
is the reason code from the system logger service.

*diag1*  
is the diagnostic field, ANSAA\_DIAG1, from the IXGWRITE answer area. For the meaning of this field, see the description of the return code and reason code from IXGWRITE in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

*diag2*

is the diagnostic field, ANSAA\_DIAG2, from the IXGWRITE answer area. For the meaning of this

field, see the description of the return code and reason code from IXGWRITE in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

*diag3*

is diagnostic information for IBM use only.

*diag4*

is diagnostic information for IBM use only.

*diag5*

is diagnostic information for IBM use only.

**System action:** RRS is unable to delete log data from the log stream until the condition is resolved.

The log stream will continue to grow in size until the error condition that is preventing RRS from deleting log data is corrected.

**Operator response:** None.

**System programmer response:** Use the description of IXGWRITE in *z/OS MVS Programming: Assembler Services Reference ABE-HSP* to determine the reason for the error and the action required for the specific error.

If you are unable to determine the cause of the error, contact IBM support and provide this message.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

#### ATR304E RRS ON *systemname* IS UNABLE TO JOIN RRS GROUP *groupname*

**Explanation:** RRS on *systemname* is unable to join, or determine if it needs to join the RRS group *groupname* because of an error from the system logger.

In the message text:

*systemname*

is the name of the system from which RRS attempted to join the RRS group.

*groupname*

is the name of the RRS group that the 'system attempted to join.

**System action:** RRS does not allow any resource manager to restart until the error is fixed, at which point RRS deletes the message.

RRS issues message ATR303I to the hardcopy log. The message provides specific diagnostic information.

**Operator response:** Find message ATR303I in the hardcopy log and inform the system programmer.

**System programmer response:** Use the contents of message ATR303I to identify the error condition the system logger returned. Follow the system programmer

response for that message to correct the error condition, if possible, then restart the resource managers.

Otherwise, consider having this RRS join a different RRS group by changing the procedure used to start RRS. Make this decision carefully because there might be resource managers running on *systemname*. You can use the RRS ISPF Log Browse panel to determine whether resource managers that will restart on *systemname* have interests in the RESTART log of the RRS group identified in *groupname*.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRAMINI

**Routing Code:** 1,2

**Descriptor Code:** 12

#### ATR305E RRS IS UNABLE TO WRITE TO *lstype* LOGSTREAM *logstreamname* ON SYSTEM *sysname*

**Explanation:** RRS cannot write to the log stream identified in this message because RRS encountered an error when using the system logger IXGWRITE macro.

Message ATR216I accompanies this message, which provides the specific diagnostic information.

In the message text:

*lstype*

Identifies the log stream type as one of the following:

- RM DATA
- MAIN UR
- DELAYED UR
- RESTART
- ARCHIVE
- RM META DATA

*logstreamname*

The name of the log stream.

*sysname*

The system name on which the error was encountered

**System action:** The action varies with the type of log stream that encountered the write error. The actions based upon the *lstype* are:

##### RM DATA

If RRS was initializing when the error occurred and RRS needed to update the log to complete initialization, then RRS initialization fails.

Otherwise, any RRS function that must update the RM DATA log stream will fail. These functions include log takeover processing for another system and RM restarts. RRS will continue to attempt to write to the RM DATA log stream on subsequent requests that require updates to the log. If a write succeeds, RRS will delete this message.

<b>MAIN UR</b>	RRS stops logging to the MAIN UR log stream on system <i>sysname</i> . All UR state log records for <i>sysname</i> are logged to the DELAYED UR log stream for the remainder of the life of the RRS address space on <i>sysname</i> .	system <i>sysname</i> and restart it to have it begin using the log stream again.
<b>DELAYED UR</b>	RRS address space on system <i>sysname</i> terminates.	If you cannot correct the problem and you want to have RRS use the MAIN UR log stream, you will need to cancel RRS and start RRS with a different log group name.
<b>RESTART</b>	RRS functions that must update the RESTART log fail. These functions include log takeover, remove interest, and resolve an <b>in-doubt</b> condition.	<b>Running without a MAIN UR log stream:</b> If you choose to run RRS without logging to the MAIN UR log stream, you need to consider the impact on RRS performance.
<b>ARCHIVE</b>	RRS stops logging to the ARCHIVE log stream on system <i>sysname</i> for the remainder of the life of the RRS address space on <i>sysname</i> .	Because system <i>sysname</i> is now logging all its UR state log entries to the DELAYED UR log stream, as opposed to both the MAIN UR and DELAYED UR log streams, the amount of data in the DELAYED UR log stream will increase. Consider monitoring the DELAYED UR log stream to ensure the log stream does not run out of log data set directory space. You can use the LOGR policy utility LIST function to monitor the log data set usage. You might also consider formatting DSEXTENT records in your LOGR couple data set if you have not already done so. This action will allow the log stream to extend its log data set directory, if necessary.
<b>RM META DATA</b>	RRS functions that update the RM Meta Data log stream may fail. These function include set meta data, remove/delete RM, and Meta Data log compression. RRS will continue to attempt to write to the RM Meta Data log stream on subsequent requests that require updates to the log stream. If a write succeeds, RRS will delete this message.	<b>DELAYED UR</b>
This message will be deleted when the RRS address space terminates.		Determine the error condition returned by the system logger. Locate message ATR216I and follow the system programmer response for that message to correct the problem, then restart the RRS address space on <i>sysname</i> .
<b>Operator response:</b> Locate message ATR216I and notify the system programmer.		If you cannot correct the problem, consider starting RRS with a different log group name.
<b>System programmer response:</b> The response varies with the type of log stream, as follows:		<b>RESTART</b>
<b>RM DATA</b>	You need to correct the error or cold start.	Determine the error condition returned by the system logger. Locate message ATR216I and follow the system programmer response for that message to correct the problem. Once RRS can successfully write to the RESTART log stream on <i>sysname</i> , it deletes this message.
To correct the error, find message ATR216I and follow the system programmer response for that message. Once RRS can write to the RM data log stream, it will delete this message.		If you cannot correct the problem, consider either deleting and redefining the RESTART log stream or starting RRS with a different log group name. In either case, you will need to bring down all members of the RRS group, redefine (define) the log stream(s), and then restart the members of the RRS group.
If you cannot correct the error, you must cold start all the RRS members in the RRS group. The RRS group name is the second qualifier in the log stream name. See <i>z/OS MVS Programming: Resource Recovery</i> for a description of how to cold start RRS, and for a description of some actions to avoid because they can cause problems that require a cold start.		<b>ARCHIVE</b>
<b>MAIN UR</b>	You can either try to fix the problem or have RRS run without logging to the MAIN UR log stream.	You can either try to fix the problem or have RRS run without logging to the ARCHIVE log stream.
<b>Fixing the problem:</b> If you try to fix the problem, you will need to determine the error condition returned by the system logger. Locate message ATR216I and follow the system programmer response for that message. Then, cancel RRS on system <i>sysname</i> and restart it to have it begin using the log stream again.		<b>Fixing the problem:</b> If you try to fix the problem, locate message ATR216I to determine the error condition the system logger returned and follow the system programmer response for that message. Then, cancel RRS on system <i>sysname</i> and restart it to have it begin using the log stream again.

If you cannot correct the problem and you want to have RRS use the ARCHIVE log stream, you will need to cancel RRS and start RRS with a different group name.

**Running without an ARCHIVE log stream:** If you choose to run without an ARCHIVE log stream, RRS will not log completed units of recovery (URs) to the ARCHIVE log stream.

#### RM META DATA

Determine the error condition returned by the system logger. Locate message ATR216I and follow the system programmer response for that message to correct the problem. Once RRS can successfully write to the RM META DATA log stream on *sysname*, RRS deletes this message.

If you cannot correct the problem, consider either deleting and redefining the RM META DATA log stream or restarting RRS with a different RRS log group name. In either case, you will need to bring down all members of the RRS group, redefine (define) the log stream(s) and then restart the members of the RRS log group.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRLMLOG

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR306I RESOURCE MANAGER *rmname* CAUSED A *hmcond* CONDITION FOR URID = *urid***

**Explanation:** RRS has detected a heuristic condition while processing the unit of recovery (UR) identified in the message; RRS records this exceptional condition in LOGREC.

In the message text:

*rmname*  
is the resource manager name.

*hmcond*  
One of the following:

#### HEURISTIC-MIXED

A heuristic-mixed condition.

#### HEURISTIC COMMIT

A heuristic commit condition.

#### HEURISTIC RESET

A heuristic reset condition.

#### HEURISTIC-MIXED BACKOUT

A heuristic-mixed backout condition.

#### HEURISTIC-MIXED COMMIT

A heuristic-mixed commit condition.

#### OK-OUTCOME-PENDING

An OK outcome pending condition.

#### BACKOUT-OUTCOME-PENDING

A BACKOUT outcome pending condition.

*urid*

is URID for the specified UR

**System action:** The system action depends on which heuristic condition was detected.

#### HEURISTIC-MIXED

RRS records this exceptional condition in LOGREC and continues with the syncpoint processing for the UR.

#### HEURISTIC COMMIT

RRS records this exceptional condition in LOGREC and continues with the syncpoint processing for the UR.

#### HEURISTIC RESET

RRS records this exceptional condition in LOGREC and continues with the syncpoint processing for the UR.

#### HEURISTIC-MIXED BACKOUT

RRS records this exceptional condition in LOGREC and backs out the UR.

#### HEURISTIC-MIXED COMMIT

RRS records this exceptional condition in LOGREC and continues with the syncpoint processing for the UR.

#### OK-OUTCOME-PENDING

RRS records this exceptional condition in LOGREC and continues with the syncpoint processing for the UR.

#### BACKOUT-OUTCOME-PENDING

RRS records this exceptional condition in LOGREC and continues with the syncpoint processing for the UR.

**Operator response:** None.

**System programmer response:** Provide the symptom record to your IBM Support Center.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRSMEXB

**Routing Code:** 1,2

**Descriptor Code:** 12

**ATR601I hh.mm.ss RRS UR SUMMARY [id]**

**Explanation:** When the operator enters the DISPLAY RRS,UR command, using the summary form, this message displays information about RRS coordinated transactions.

In the message text:

*hh.mm.ss name*

The hour, minute and second at which the system

## ATR602I • ATR605I

processed the display command. 00.00.00 appears in this field if the time-of-day (TOD) clock is not working.	processed the display command. 00.00.00 appears in this field if the time-of-day (TOD) clock is not working.
<i>id</i> The decimal identifier used with the CONTROL C,D command to cancel status displays that are written on typewriter or printer consoles or displayed inline on a display console. The identifier does not appear when the display appears in a display area on a display console.	<i>id</i> The decimal identifier used with the CONTROL C,D command to cancel status displays that are written on typewriter or printer consoles or displayed inline on a display console. The identifier does not appear when the display appears in a display area on a display console.
<b>System action:</b> The system continues processing.	<b>System action:</b> The system continues processing.
<b>User response:</b> None.	<b>User response:</b> None.
<b>Operator response:</b> None.	<b>Operator response:</b> None.
<b>System programmer response:</b> None.	<b>System programmer response:</b> None.
<b>Source:</b> Resource Recovery Services (RRS)	<b>Source:</b> Resource Recovery Services (RRS)
<b>Detecting Module:</b> ATRDMRRS	<b>Detecting Module:</b> ATRDMRRS

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### ATR602I    *hh.mm.ss RRS RM SUMMARY [id]*

**Explanation:** When the operator enters the DISPLAY RRS,RM command, using the summary form, this message displays information about resource managers which are currently active or were previously active with RRS.

In the message text:

*hh.mm.ss name*

The hour, minute and second at which the system processed the display command. 00.00.00 appears in this field if the time-of-day (TOD) clock is not working.

*id* The decimal identifier used with the CONTROL C,D command to cancel status displays that are written on typewriter or printer consoles or displayed inline on a display console. The identifier does not appear when the display appears in a display area on a display console.

**System action:** The system continues processing.

**User response:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRDMRRS

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### ATR603I    *hh.mm.ss RRS UR DETAIL [id]*

**Explanation:** When the operator enters the DISPLAY RRS,UR command, using the detailed form, this message displays information about a particular transaction as indicated by the URID= parameter.

In the message text:

*hh.mm.ss name*

The hour, minute and second at which the system

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### ATR604I    *hh.mm.ss RRS RM DETAIL [id]*

**Explanation:** When the operator enters the DISPLAY RRS,RM command, using the detailed form, this message displays information about a specific resource manager as indicated by the RMNAME= parameter.

In the message text:

*hh.mm.ss name*

The hour, minute and second at which the system processed the display command. 00.00.00 appears in this field if the time-of-day (TOD) clock is not working.

*id* The decimal identifier used with the CONTROL C,D command to cancel status displays that are written on typewriter or printer consoles or displayed inline on a display console. The identifier does not appear when the display appears in a display area on a display console.

**System action:** The system continues processing.

**User response:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** Resource Recovery Services (RRS)

**Detecting Module:** ATRDMRRS

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### ATR605I    DISPLAY RRS COMMAND TRUNCATED, SOME DATA NOT AVAILABLE.

**Explanation:** RRS found too many RMs or URs that matched the selection criteria to display.

**System action:** The system returns as many complete URs or RMs as possible.

**User response:** None.

**Operator response:** None.

- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS

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- | **ATR606I DISPLAY RRS COMMAND NOT PROCESSED, RRS IS NOT ACTIVE.**
- | **Explanation:** An RRS user attempted to obtain information from RRS. RRS, however, is not active, so no information can be returned.
- | **System action:** The command is rejected.
- | **User response:** When RRS is active, try the request again.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS

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- | **ATR607I DISPLAY RRS COMMAND NOT PROCESSED, sysname ATRQUERY RC=queryrc, RSN=queryrsn**
- | **Explanation:** While processing a command from an RRS user, RRS issued the ATRQUERY macro to obtain information on behalf of the user, but the ATRQUERY macro encountered an error.
- | In the message text:
  - | **sysname**  
The name of a system.
  - | **queryrc**  
The return code from the ATRQUERY macro.
  - | **queryrsn**  
The reason code from the ATRQUERY macro.
- | **System action:** The command is ended.
- | **User response:** Review the return code and reason code from the ATRQUERY macro and fix the error, then issue the command again. You can find an explanation of the codes under ATRQUERY in *z/OS MVS Programming: Resource Recovery*.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS

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- | **ATR608I DISPLAY RRS COMMAND NOT PROCESSED, NOT AUTHORIZED FOR ATRQUERY READ ACCESS REQUEST: SYSNAME=sysname GNAME=gname**
- | **Explanation:** You do not have the proper RACF access to make the specified request.

- | In the message text:
  - | **sysname**  
The name of a system.
  - | **gname**  
The logging group name.
- | **System action:** The request is ignored.
- | **User response:** Obtain the proper authorization to the MVSADMIN.RRS.COMMANDS.*gname.sysname* resource. For requests to the system where the TSO user resides, MVSADMIN.RRS.COMMANDS may also be used but is obsolete.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS

---

- | **ATR609I DISPLAY RRS COMMAND NOT PROCESSED, GNAME VALUE NOT VALID. GNAME=*gname***
- | **Explanation:** RRS does not know about the specified logging group.
- | In the message text:
  - | **gname**  
The logging group name.
- | **System action:** The request is ignored.
- | **User response:** Specify a known RRS logging group name.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS

---

- | **ATR610I DISPLAY RRS COMMAND NOT PROCESSED, SYSNAME VALUE NOT VALID. SYSNAME=*sysname***
- | **Explanation:** RRS does not know about the specified system name or that system is not part of the specified RRS logging group.
- | In the message text:
  - | **sysname**  
The name of a system.
- | **System action:** The request is ignored.
- | **User response:** Specify a system name that is part of the specified RRS logging group.
- | **Operator response:** None.
- | **System programmer response:** None.

## ATR611I • ATR616I

- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS
- 
- | **ATR611I DISPLAY RRS COMMAND NOT PROCESSED, TOO MANY ITEMS TO FIT IN BUFFER.**
- | **Explanation:** RRS was unable to allocate storage to contain all the data to be returned.
- | **System action:** The request is rejected.
- | **User response:** Change the filters specified to reduce the number of items returned and retry your query request.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS
- 
- | **ATR612I DISPLAY RRS COMMAND NOT PROCESSED, ATRQUERY INSTANCE FAILURE. SYSNAME=***sysname*
- | **Explanation:** An error occurred processing your query request.
- | In the message text:
- | *sysname*  
The name of a system.
- | **System action:** No data was returned from this system.
- | **User response:** Review the error information and, if possible, fix the error and retry your query request.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS
- 
- | **ATR613I DISPLAY RRS COMMAND NOT PROCESSED, NO RESPONSE FROM REMOTE SYSTEM. SYSNAME=***sysname*
- | **Explanation:** RRS sent a request to the named system but did not receive a reply from that system. The system may be down or XCF did not receive a reply before timing out the request.
- | In the message text:
- | *sysname*  
The name of a system.
- | **System action:** No data was returned from this system.
- | **User response:** If the named system is active and
- | RRS is active on that system, retry your query request.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS
- 
- | **ATR614I DISPLAY RRS COMMAND NOT PROCESSED, REMOTE SYSTEM NOT ACTIVE. SYSNAME=***sysname*
- | **Explanation:** RRS sent a request to the named system but did not receive a reply from that system. The system may be down or RRS is not active on that system.
- | In the message text:
- | *sysname*  
The name of a system.
- | **System action:** No data was returned from this system.
- | **User response:** If the named system is active and RRS is active on that system, retry your query request.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS
- 
- | **ATR615I DISPLAY RRS COMMAND NOT PROCESSED, UNEXPECTED ERROR.**
- | **Explanation:** The ATRQUERY macro returns an unexpected error.
- | **System action:** No data was returned.
- | **User response:** Retry your request. If the request continues to fail, contact your system programmer.
- | **Operator response:** None
- | **System programmer response:** Provide debugging information to the IBM Support Center.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS
- 
- | **ATR616I DISPLAY RRS COMMAND PROCESSED, NO INFORMATION MATCHES THE SPECIFIED CRITERIA.**
- | **Explanation:** An RRS user defined filters to search for one or more units of recovery (URs), but there were no URs that matched the filters the user provided.
- | **System action:** The command is ended.
- | **User response:** None.

- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS

---

| **ATR617I DISPLAY RRS COMMAND NOT  
PROCESSED, URID IS REQUIRED FOR  
DETAILED OPTION.**

- | **Explanation:** URID is a required field when the option DETAILED is requested.
- | **System action:** The request is ignored.
- | **User response:** Specify a URID and retry your display request.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS

---

| **ATR618I DISPLAY RRS COMMAND NOT  
PROCESSED, RM NAME IS REQUIRED  
FOR DETAILED OPTION.**

- | **Explanation:** RM name is a required field when the option DETAILED is requested.
- | **System action:** The request is ignored.
- | **User response:** Specify a RM name and retry your display request.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** Resource Recovery Services (RRS)
- | **Detecting Module:** ATRDMRRS



## Chapter 5. ATRH Messages

---

**ATRH001E RRS stream log stream is not using the recommended duplexing method.**

**Explanation:** Using local buffer duplexing can result in a loss of data in the named log stream if both the coupling facility and the local buffers are on the same machine. For example, A loss of data in the RRS RM Data log stream will eventually require an RRS cold start to repair the log stream and may also require a cold start of any resource manager using RRS at the time of the RRS cold start.

**System action:** RRS continues processing.

**Operator response:** Contact the system programmer.

**System programmer response:** Update the RRS RM Data log stream definition to use a better duplexing scheme, such as defining staging data sets and requesting DUPLEXMODE(UNCOND) STG\_DUPLEX(YES).

**Problem determination:** N/A

**Source:** Resource Recovery Services (RRS)

**Reference Documentation:** z/OS MVS Programming: Resource Recovery

**Automation:** N/A

**Detecting Module:** ATRHMCHK

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**ATRH002E RRS dsname size, lssize, is smaller than the coupling facility structure size, strsize.**

**Explanation:** Multiple offload data sets may be created for each offload of the coupling facility. The increased overhead in allocating data sets can affect offload performance and affect the performance of RRS when reading the named log stream.

**System action:** RRS continues processing.

**Operator response:** Contact the system programmer.

**System programmer response:** Consider updating the LS\_SIZE parameter for the named log stream to be at least as large as the coupling facility structure size in the message.

**Problem determination:** N/A

**Source:** Resource Recovery Services (RRS)

**Reference Documentation:** z/OS MVS Programming: Resource Recovery

**Automation:** N/A

**Detecting Module:** ATRHMCHK

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**ATRH003I RRS stream log stream duplexing mechanism is acceptable.**

**Explanation:** The named log stream is using a duplexing mechanism other than local buffers, providing enhanced protection against data lost conditions.

**System action:** RRS continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** Resource Recovery Services (RRS)

**Reference Documentation:** z/OS MVS Programming: Resource Recovery

**Automation:** N/A

**Detecting Module:** ATRHMCHK

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**ATRH004I RRS dsname size, lssize, is at least the coupling facility structure size, strsize.**

**Explanation:** At most one offload data set may be created for each offload of the coupling facility. This minimizes overhead in allocating data sets that can affect offload performance and affect the performance of RRS when reading the named log stream.

**System action:** RRS continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** Resource Recovery Services (RRS)

**Reference Documentation:** z/OS MVS Programming: Resource Recovery

**Automation:** N/A

**Detecting Module:** ATRHMCHK

**Routing Code:** N/A

**Descriptor Code:** N/A

	<b>Descriptor Code:</b> N/A
<b>ATRH005I</b> <b>System logger on system</b> <i>system_name</i> <b>can find no offload data set for logstream</b> <i>stream</i> , so the size of the offload data set cannot be checked. System logger will be able to find an offload data set as soon as RRS on system <i>system_name</i> writes some data to an offload data set.	<b>ATRH007I</b> The RRS <i>stream</i> log stream is a DASD-Only logstream. It is not meaningful to compare the coupling facility size and the offload data set size for DASD-Only log streams.
<b>Explanation:</b> Sometimes system logger is unable to find offload data sets even though they exist. In particular, IBM Health Checker for z/OS cannot find an offload data set if the system has not written anything to an offload data set since the last time RRS connected to the logstream. For example, if RRS on system SY1 writes to offload data set DS1, but RRS on SY2 has not written to offload data set DS1, then system logger on system SY1 will be able to report on offload data set DS1, but system logger on system SY2 will not be able to report on offload data set DS1.	<b>Explanation:</b> DASD only logstreams never use a coupling facility structure. So, comparing the size of the coupling facility structure and offload data set is not meaningful.
<b>System action:</b> RRS continues processing.	<b>System action:</b> RRS continues processing.
<b>Operator response:</b> N/A	<b>Operator response:</b> N/A
<b>System programmer response:</b> N/A	<b>System programmer response:</b> N/A
<b>Problem determination:</b> N/A	<b>Problem determination:</b> N/A
<b>Source:</b> Resource Recovery Services (RRS)	<b>Source:</b> Resource Recovery Services (RRS)
<b>Reference Documentation:</b> <i>z/OS MVS Programming: Resource Recovery</i>	<b>Reference Documentation:</b> <i>z/OS MVS Programming: Resource Recovery</i>
<b>Automation:</b> N/A	<b>Automation:</b> N/A
<b>Detecting Module:</b> ATRHMCHK	<b>Detecting Module:</b> ATRHMCHK
<b>Routing Code:</b> N/A	<b>Routing Code:</b> N/A
<b>Descriptor Code:</b> N/A	<b>Descriptor Code:</b> N/A
<b>ATRH006I</b> The RRS <i>stream</i> log stream is a DASD-Only logstream. It is not meaningful to check the duplexing scheme for DASD-Only log streams.	<b>ATRH008I</b> The RRS <i>stream</i> log stream is a DASD-Only log stream. It is not meaningful to determine how many log streams share a CF structure for DASD-Only log streams. RRS has stopped running this check.
<b>Explanation:</b> DASD only logstreams always use staging data sets, which is an acceptable duplexing scheme.	<b>Explanation:</b> It is particularly important for the named log stream to reside in its own coupling facility structure. However, the named log stream is a DASD-only log stream. DASD-only log streams never use a coupling facility structure. So, it is not meaningful to figure out how many other log streams share the named log stream's coupling facility structure.
<b>System action:</b> RRS continues processing.	<b>System action:</b> RRS continues processing. RRS stops checking to see if this log stream shares a coupling facility structure.
<b>Operator response:</b> N/A	<b>Operator response:</b> N/A
<b>System programmer response:</b> N/A	<b>System programmer response:</b> N/A
<b>Problem determination:</b> N/A	<b>Problem determination:</b> N/A
<b>Source:</b> Resource Recovery Services (RRS)	<b>Source:</b> Resource Recovery Services (RRS)
<b>Reference Documentation:</b> <i>z/OS MVS Programming: Resource Recovery</i>	<b>Reference Documentation:</b> <i>z/OS MVS Programming: Resource Recovery</i>
<b>Automation:</b> N/A	<b>Automation:</b> N/A
<b>Detecting Module:</b> ATRHMCHK	<b>Detecting Module:</b> ATRHMCHK
<b>Routing Code:</b> N/A	<b>Routing Code:</b> N/A

**Descriptor Code:** N/A

**ATRH009I** RRS health checker's last attempt to gather information about the log stream named *stream* failed. Ixgquery return code is *ReturnCd*. Ixgquery reason code is *ReasonCd*. The information health checker presents for the named log stream was constructed using obsolete data.

**Explanation:** RRS called Ixgquery to gather information about the named log stream. The Ixgquery failed. The return code and reason code from Ixgquery appear in the message. If the Ixgquery return code is 8, and the reason code is 806, and the log stream is optional, then RRS is not using the named optional log stream because it does not exist. This is the expected result when you have decided that RRS should not use the named log stream.

**System action:** RRS continues processing. RRS continues to call Ixgquery at regular intervals. If a future Ixgquery succeeds, health checker will present information about the named log stream using up-to-date data.

**Operator response:** If the Ixgquery return code is 8, and the reason code is 806, and you know that your installation does not want RRS to use the named log stream, then no action is needed. Otherwise, contact the system programmer.

**System programmer response:** If the Ixgquery return code is 8, and the reason code is 806, and the log stream is optional, then RRS is not using the named optional log stream because it does not exist. If you want RRS to use the named log stream, define it and restart RRS. See the *z/OS MVS Programming: Resource Recovery* for more information on defining the named log stream. For other Ixgquery return and reason codes, consult the *z/OS MVS Programming: Assembler Services Reference IAR-XCT* to find the meaning of the Ixgquery return and reason code, and take appropriate action.

**Problem determination:** N/A

**Source:** Resource Recovery Services (RRS)

**Reference Documentation:** *z/OS MVS Programming: Assembler Services Reference IAR-XCT*

**Automation:** N/A

**Detecting Module:** ATRHMCHK

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**ATRH010E** RRS *stream* log stream is allowed to share its coupling facility structure with another log stream. This is not recommended.

**Explanation:** IBM recommends that each RRS log stream reside in its own coupling facility structure. This is particularly important for the archive log. Allowing the RRS archive log stream to share its coupling facility structure with another log stream is likely to result in sub-optimal use of the storage in the coupling facility structure. The system performance might be affected.

You can prevent this check from running. For more details, see the *IBM Health Checker for z/OS: User's Guide*.

**System action:** RRS continues processing.

**Operator response:** N/A

**System programmer response:** Consider putting the RRS archive log in its own coupling facility structure. Use the IXCMIAPU utility to accomplish this. For example, to give the archive log its own structure named ABC, run the IXCMIAPU program with the this input:

```
DATA TYPE(LOGR)  
DEFINE STRUCTURE NAME(ABC) LOGSNUM(1)
```

The LOGSNUM(1) means that only one log stream can use structure ABC. See the *z/OS MVS Setting Up a Sysplex* for more information about IXCMIAPU.

**Problem determination:** N/A

**Source:** Resource Recovery Services (RRS)

**Reference Documentation:** *z/OS MVS Programming: Resource Recovery*

**Automation:** N/A

**Detecting Module:** ATRHMCHK

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**ATRH011I** The RRS *stream* log stream is in its own coupling facility structure. This is the best practice.

**Explanation:** The named log stream's configuration complies with IBM recommendations. IBM recommends that each RRS log stream reside in its own coupling facility structure. This is particularly important for the archive log. Placing the RRS archive log stream in its own coupling facility structure makes it possible to efficiently use storage in the coupling facility structure.

**System action:** RRS continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** Resource Recovery Services (RRS)  
**Reference Documentation:** z/OS MVS Programming:  
Resource Recovery  
**Automation:** N/A  
**Detecting Module:** ATRHMCHK  
**Routing Code:** N/A  
**Descriptor Code:** N/A

**Routing Code:** N/A  
**Descriptor Code:** N/A

---

**ATRH012I** All attempts to gather information about the log stream named *stream* have failed. The most recent Ixgquery return code is *ReturnCd*. The most recent Ixgquery reason code is *ReasonCd*. RRS Health Checker can present no information about this log stream.

**Explanation:** RRS calls Ixgquery at regular intervals to gather information about the named log stream. All calls to Ixgquery failed. The return code and reason code from the most recent Ixgquery appear in the message. If the Ixgquery return code is 8, and the reason code is 806, and the log stream is optional, then RRS is not using the named optional log stream because it does not exist. This is the expected result when you have decided that RRS should not use the named log stream.

**System action:** RRS continues processing. RRS continues to call Ixgquery at regular intervals. If a future Ixgquery succeeds, health checker will present information about the named log stream using up-to-date data.

**Operator response:** If the Ixgquery return code is 8, and the reason code is 806, and you know that your installation does not want RRS to use the named log stream, then no action is needed. Otherwise, contact the system programmer.

**System programmer response:** If the Ixgquery return code is 8, and the reason code is 806, and the log stream is optional, then RRS is not using the named optional log stream because it does not exist. If you want RRS to use the named log stream, define it and restart RRS. See the z/OS MVS Programming: Resource Recovery for more information on defining the named log stream. For other Ixgquery return and reason codes, consult the z/OS MVS Programming: Assembler Services Reference IAR-XCT to find the meaning of the Ixgquery return and reason code, and take appropriate action.

**Problem determination:** N/A

**Source:** Resource Recovery Services (RRS)  
**Reference Documentation:** z/OS MVS Programming:  
Assembler Services Reference IAR-XCT  
**Automation:** N/A  
**Detecting Module:** ATRHMCHK

## Chapter 6. AVM Messages

---

### AVM001I AVM IS INITIALIZED

**Explanation:** The system successfully initialized the availability manager.

**System action:** The system continues processing.

**Source:** Availability manager

**Detecting Module:** AVFSR

**Routing Code:** 2,10

**Descriptor Code:** 4

---

### AVM002I AVM START REJECTED, AVM IS ALREADY ACTIVE WITH ASID=*asid*

**Explanation:** When initializing the availability manager, the system found that another availability manager address space is active. One of the following may have caused this problem:

- A subsystem requested availability manager services.
- The system issued an internal START command in response to a request by the information management system (IMS™).
- The system is ending the availability manager.
- The system ended the availability manager previously without releasing all of its resources.
- Storage containing availability manager control blocks was overlaid.

In the message text:

*asid* The address space identifier (ASID) of the address space where the availability manager is already active.

**System action:** The system rejects the second START command.

**Operator response:** Wait until message AVM010E appears. Then enter the START command again. If the error persists, notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** Availability manager

**Detecting Module:** AVFMB

**Routing Code:** \*

**Descriptor Code:** 5

---

### AVM004I TAKEOVER IN PROGRESS FOR SUBSYSTEM *ssid*, {ACTIVE|BACKUP} ELEMENT OF RSE *rseename*

**Explanation:** The availability manager began a takeover for a subsystem.

In the message text:

*ssid* The subsystem identifier.

*rseename*

The recoverable service element (RSE) formed by the failing subsystem and the alternate subsystem.

**System action:** The system does one of the following:

- When **ACTIVE** appears in the message, the failing active subsystem does not perform any I/O operations to the subsystem's data bases. The system displays message AVM004I on the system containing the failing active subsystem. When I/O prevention is complete, the system issues message AVM006E.
- When **BACKUP** appears in the message, the availability manager and the alternate subsystem begin takeover processing for the failing active subsystem. Message AVM004I is displayed on the system containing the alternate subsystem.

**Source:** Availability manager

**Detecting Module:** AVFKP

**Routing Code:** 2,10

**Descriptor Code:** 4

---

### AVM005A REPLY UNLOCK WHEN I/O PREVENTION COMPLETES FOR RSE *rseename*

**Explanation:** An alternate subsystem is taking over for a failing active subsystem.

In the message text:

*rseename*

The recoverable service element (RSE) formed by the failing subsystem and the alternate subsystem.

**System action:** The system issues this message on the system where the alternate subsystem is running.

**Operator response:** Check if the active subsystem completed I/O prevention by looking for an occurrence of message AVM006E that contains the same RSE name specified in message AVM005A. Do one of the following:

- If you find a match, reply UNLOCK to message AVM005A.
- If you do not find a match, do one of the following to stop I/O for the failing active subsystem:
  - Switch the direct access storage device (DASD).
  - Perform a system reset.

Then reply UNLOCK to message AVM005A.

## AVM006E • AVM010E

**Source:** Availability manager  
**Detecting Module:** AVFWA  
**Routing Code:** 1,10  
**Descriptor Code:** 2

---

**AVM006E** TELL OPERATOR AT BACKUP TO  
REPLY “UNLOCK” TO MESSAGE  
AVM005A. I/O PREVENTION IS  
COMPLETE FOR SUBSYSTEM *ssid*,  
FAILING ACTIVE ELEMENT OF RSE  
*rsename*.

**Explanation:** The availability manager completed I/O prevention for a failing active subsystem. The alternate subsystem can now provide full data access.

In the message text:

*ssid* The subsystem identifier.

*rsename*  
The recoverable service element (RSE) formed by the failing subsystem and the alternate subsystem.

**System action:** The availability manager completes takeover processing for the failing active subsystem.

The system does not issue message AVM005A, or deletes message AVM005A before the operator can reply, when:

- No alternate subsystem for the RSE connected to the availability manager.
- A connected alternate subsystem does not have to be notified of I/O prevention completion.

**Operator response:** Delete message AVM006E from the console. If the system issues message AVM005A, reply UNLOCK on the system where the alternate subsystem is running.

**Source:** Availability manager  
**Detecting Module:** AVFIW  
**Routing Code:** 1,10  
**Descriptor Code:** 11

---

**AVM007I** SUBSYSTEM *ssid* ASID *asid* IS NOW  
THE {ACTIVE|BACKUP} ELEMENT OF  
RSE *rsename*

**Explanation:** A subsystem is either the active or the backup element of a recoverable service element (RSE).

In the message text:

*ssid* The subsystem identifier.  
*asid* The address space identifier.

*rsename*

The recoverable service element (RSE) formed by the failing subsystem and the alternate subsystem.

**ACTIVE**

One of the following occurred:

- The subsystem completed initialization and is active.
- An alternate subsystem completed takeover of a failing active subsystem.

**BACKUP**

The alternate subsystem is ready to take over for the active subsystem, if necessary.

**System action:** Depending on the message text, the system establishes the subsystem as the active or alternate element of the RSE.

**Source:** Availability manager  
**Detecting Module:** AVFNS  
**Routing Code:** 2,10  
**Descriptor Code:** 4

---

**AVM008I** INVALID REPLY TO MESSAGE  
“AVM*nnnn*”

**Explanation:** The operator entered an incorrect reply to message AVM*nnnn*.

**System action:** The system issues message AVM*nnnn* again.

**Operator response:** Enter a correct reply to message AVM*nnnn*.  
**Source:** Availability manager  
**Detecting Module:** AVFMS  
**Routing Code:** \*  
**Descriptor Code:** 5

---

**AVM010E** AVM ENDED ABNORMALLY  
(ABEND=*Scde* REASON=*reason-code*)

**Explanation:** The availability manager address space ended abnormally.

In the message text:

*Scde* The system completion code.  
*reason-code* The reason code. If no reason code exists, NONE appears in this field.

**System action:** The availability manager releases its resources and ends. Data about subsystems previously defined to the availability manager may be lost. If availability manager is restarted, the subsystems must redefine themselves to the availability manager.

**Operator response:** Notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** Availability manager

**Detecting Module:** AVFMH

**Routing Code:** 1,10

**Descriptor Code:** 11

---

**AVM011E ENSURE A TAKEOVER IS IN PROGRESS FOR THE {ACTIVE|BACKUP} ELEMENT OF RSE *rsename***

**Explanation:** The system issues this message twice after issuing message AVM004I.

In the message text:

*rsename*

The recoverable service element (RSE) formed by the failing subsystem and the alternate subsystem.

#### ACTIVE

The message appears on the system console for the specified BACKUP element.

#### BACKUP

The message appears on the system console for the failing ACTIVE element.

**System action:** If **BACKUP** appears in the message text, the system deletes the message when I/O prevention is complete.

If **ACTIVE** appears in the message text, the system deletes the message when the backup subsystem takes over.

**Operator response:** Do the following:

- When **BACKUP** appears in the message, ensure that a takeover is in progress for the RSE on the alternate subsystem. If a takeover is not in progress, enter the IMS SWITCH command to initiate takeover.
- When **ACTIVE** appears in the message, ensure that a takeover is in progress for the RSE on the active subsystem. If a takeover is not in progress, enter the IMS SWITCH command to start a takeover.

If you cannot start a takeover, do one of the following to disable the system:

- Switch the direct access storage device (DASD).
- Perform a system reset.
- If you disabled the system, reply UNLOCK to message AVM005A.

**Source:** Availability manager

**Detecting Module:** AVFKP

**Routing Code:** 1,10

**Descriptor Code:** 11

---

**AVM012E INITIATE MANUAL I/O PREVENTION FOR SUBSYSTEM *ssid*, FAILING ACTIVE ELEMENT OF RSE *rsename*. I/O PREVENTION COULD NOT BE INITIATED BY AVM.**

**Explanation:** The availability manager could not prevent a failing active subsystem from performing I/O to external data base(s) shared with the backup subsystem.

In the message text:

*ssid* The subsystem identifier.

*rsename*

The recoverable service element (RSE) that contains the failing subsystem.

**System action:** The availability manager removes the failing active subsystem from the RSE. The system takes an SVC dump. The system may write a logrec data set error record.

**Operator response:** Do the following:

- Disable the system on which message AVM012E appears by doing one of the following:
  - Switch the direct access storage device (DASD).
  - Perform a system reset.
- Reply UNLOCK to message AVM005A if message AVM005A was issued on the system where the alternate subsystem is running.
- Notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** Availability manager

**Detecting Module:** AVFLT

**Routing Code:** 1,10

**Descriptor Code:** 11

---

**AVM022I AVM START FAILED (ABEND=*Scde*,REASON=*reason-code*)**

**Explanation:** The system could not build a new address space for the availability manager.

In the message text:

*Scde* The abend code.

*reason-code* The reason code. If no reason code exists, **NONE** appears in this field.

**System action:** The system does not initialize a new availability manager. The system writes an SVC dump. The system may write a logrec data set error record.

**Operator response:** Notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix

## AVM031I • AVM034I

exists, contact the IBM Support Center.

**Source:** Availability manager

**Detecting Module:** AVFJA

**Routing Code:** \*

**Descriptor Code:** 5

---

### AVM031I SUBSYSTEM *ssid ASID asid* CONNECTION TO AVM COMPLETED

**Explanation:** A subsystem in the specified address space successfully connected to the availability manager.

In the message text:

*ssid* The subsystem identifier.

*asid* The address space identifier (ASID) of the address space where the subsystem is running.

**System action:** The system connects the availability manager and the subsystem. The system routes this message to the system log.

**Source:** Availability manager

**Detecting Module:** AVFJA

**Routing Code:** 10

**Descriptor Code:** 4

---

### AVM032I SUBSYSTEM *ssid ASID asid* CONNECTION TO AVM FAILED (REASON CODE=*reason-code*)

**Explanation:** A subsystem failed to connect to the availability manager. When requesting the connection, the subsystem issued the CALLAVM macro with the TYPE=JOINAVM parameter.

In the message text:

*ssid* The subsystem identifier.

*asid* The identifier for the address space where the subsystem is running.

*reason-code* The reason code. If no reason code exists, **NONE** appears in this field.

**System action:** The system routes this message to the system log. The system continues processing.

**Operator response:** Notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** Availability manager

**Detecting Module:** AVFJA

**Routing Code:** 10

**Descriptor Code:** 4

---

### AVM033I SUBSYSTEM *ssid ASID asid* CONNECTION TO RSE *rsename* COMPLETED

**Explanation:** A subsystem became a member of the specified recoverable service element (RSE).

In the message text:

*ssid* The subsystem identifier.

*asid* The address space identifier (ASID) of the address space where the subsystem is running.

*rsename* The recoverable service element (RSE) formed by the subsystem and an alternate subsystem.

**System action:** The system routes this message to the system log. The system continues processing.

**Source:** Availability manager

**Detecting Module:** AVFJB

**Routing Code:** 10

**Descriptor Code:** 4

---

### AVM034I SUBSYSTEM *ssid ASID asid* CONNECTION TO RSE *rsename* FAILED (REASON CODE = *reason-code*)

**Explanation:** The availability manager could not make a subsystem a member of a recoverable service element (RSE). The subsystem asked to become a member of the RSE by issuing the CALLVM macro with the TYPE=JOINRSE parameter.

In the message text:

*ssid* The subsystem identifier.

*asid* The address space identifier (ASID) of the address space where the subsystem is running.

*rsename* The RSE for which the subsystem requested membership.

*reason-code* The reason code. If no reason code exists, **NONE** appears in this field.

**System action:** The system routes this message to the system log. The system continues processing.

**Operator response:** Notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** Availability manager

**Detecting Module:** AVFJB

**Routing Code:** 10

**Descriptor Code:** 4

---

**AVM035I**    **SUBSYSTEM** *ssid ASID asid*  
**TERMINATION FROM AVM**  
**{COMPLETED|IN PROGRESS} OPTION**  
**= {NORMAL|ABEND}**

**Explanation:** The availability manager has disconnected, or is disconnecting, a subsystem.

One of the following occurred:

- The subsystem asked to disconnect from the availability manager.
- The availability manager found that the address space containing the subsystem ended.

In the message text:

<b>ssid</b>	The subsystem identifier.
<b>asid</b>	The address space identifier (ASID) of the address space where the subsystem is running.
<b>IN PROGRESS</b>	AVM is disconnecting the specified subsystem.
<b>COMPLETED</b>	AVM successfully disconnected the specified subsystem.
<b>NORMAL</b>	The subsystem ended normally.
<b>ABEND</b>	The subsystem ended abnormally.

**System action:** The system routes this message to the system log.

If **COMPLETED** appears in the message, the availability manager disconnected the subsystem. The system continues processing.

If **IN PROGRESS** appears in the message, the system removes the subsystem from a recoverable service element (RSE) if it was part of an RSE. Then the availability manager disconnects the subsystem. The system issues message AVM035I again with **COMPLETED** in the text.

**Source:** Availability manager

**Detecting Module:** AVFLA

**Routing Code:** 10

**Descriptor Code:** 4

---

**AVM036I**    **SUBSYSTEM** *ssid ASID asid*  
**TERMINATION FROM AVM FAILED**  
**OPTION {NORMAL|ABEND} (REASON CODE = *reason-code*)**

**Explanation:** A subsystem asked to be disconnected from the availability manager. The subsystem issued the CALLAVM macro with the TYPE=LEAVEAVM parameter.

In the message text:

<b>ssid</b>	The subsystem identifier.
<b>asid</b>	The address space identifier (ASID) of the address space where the subsystem is running.

**NORMAL**

The subsystem ended normally.

**ABEND**

The subsystem ended abnormally.

**System action:** The availability manager stops processing the request. The system routes this message to the system log.

**Operator response:** Notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** Availability manager

**Detecting Module:** AVFLA

**Routing Code:** 10

**Descriptor Code:** 4

---

**AVM037I**    **SUBSYSTEM** *ssid ASID asid*  
**TERMINATION FROM RSE** *rseename*  
**COMPLETED, OPTION = {IOP|TAKEOVER|NORMAL}**

**Explanation:** To remove a subsystem from a recoverable service element (RSE), the availability manager issued the CALLAVM macro with the TYPE=LEAVERSE parameter. In the message text:

<b>ssid</b>	The subsystem identifier.
<b>asid</b>	The address space identifier (ASID) of the address space where the subsystem is running.
<b>rseename</b>	The RSE from which the availability manager removed the subsystem.
<b>NORMAL</b>	The subsystem requested a LEAVERSE with OPTION=NORMAL.
<b>TAKEOVER</b>	The subsystem requested a LEAVERSE with OPTION=TAKEOVER.

## AVM038I • AVM039I

**IOP** The subsystem requested a LEAVERSE with OPTION=IOP (I/O prevention).

**System action:** The system issues message AVM037I. The system issues message AVM039I. The availability manager removes the subsystem from the RSE.

**Source:** Availability manager

**Detecting Module:** AVFLR

**Routing Code:** 10

**Descriptor Code:** 4

---

**AVM038I** **SUBSYSTEM *ssid* ASID *asid***  
**TERMINATION FROM RSE *rseename***  
**FAILED, OPTION =**  
**{NORMAL|TAKEOVER|IOP} (REASON CODE = *reason-code*)**

**Explanation:** The availability manager failed to remove a subsystem from a recoverable service element (RSE). The subsystem issued a CALLAVM macro with the TYPE=LEAVERSE parameter.

In the message text:

***ssid*** The subsystem identifier.

***asid*** The address space identifier (ASID) of the address space where the subsystem is running.

***rseename*** The RSE from which the availability manager removed the subsystem.

**NORMAL** The subsystem requested a LEAVERSE with OPTION=NORMAL.

**TAKEOVER** The subsystem requested a LEAVERSE with OPTION=TAKEOVER.

**IOP** The subsystem requested a LEAVERSE with OPTION=IOP (I/O prevention).

***reason-code*** The reason code. If no reason code exists, **NONE** appears in this field.

**System action:** The availability manager stops processing the request. The system routes this message to the system log.

**Operator response:** Notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center.

**Source:** Availability manager

**Detecting Module:** AVFLR

**Routing Code:** 10

**Descriptor Code:** 4

---

**AVM039I** **SUBSYSTEM *ssid* ASID *asid***  
**TERMINATION FROM RSE *rseename***  
**COMPLETE**

**Explanation:** The availability manager removed a subsystem from a recoverable service element (RSE). The request to remove the subsystem came from one of the following:

- The subsystem itself
- The availability manager

In the message text:

***ssid*** The subsystem identifier.

***asid*** The address space identifier (ASID) of the address space where the subsystem is running.

***rseename*** The RSE from which the availability manager removed the subsystem.

**System action:** The system issues message AVM037I. The system issues message AVM039I. The system continues processing.

**Source:** Availability manager

**Detecting Module:** AVFLR

**Routing Code:** 2,10

**Descriptor Code:** 4

## Chapter 7. BLS Messages

### Additional BLS Messages

See *z/OS MVS Dump Output Messages* manual for additional messages.

---

**BLS001E UNABLE TO PROCESS  
SYS1.PARMLIB(BLSCECT) FOR SNAP**

**Explanation:** The system detected an error while processing the BLSCECT parmlib member or any imbedded members.

**System action:** SYS1.PROCLIB procedure BLSJPRMI ends. Formatting for ABEND and SNAP dumps will be unable to use the installation exit routines or IBM-supplied support identified by the BLSCECT parmlib member or any imbedded members. For this IPL, SNAP will not be usable. IPL continues.

**Operator response:** Notify the system programmer.

**System programmer response:** Add a temporary SYSTSPRT file to SYS1.PROCLIB(BLSJPRMI). The system might send messages that describe the error in more detail. Then ask the operator to restart BLSJPRMI.

**Source:** Interactive problem control system (IPCS)

**Routing Code:** 1,10,11

**Descriptor Code:** 11

---

**BLS002E BLSQPRMI CAN ONLY BE INVOKED  
FROM A JOB INITIATED BY THE  
OPERATOR START COMMAND**

**Explanation:** The system program BLSQPRMI was invoked in an environment other than from a job which was initiated by an operator START command. BLSQPRMI can only be invoked from a job initiated by a START command.

**Note:** The IEACMD00 parmlib member uses the START command to initiate the procedure SYS1.PROCLIB(BLSJPRMI). That procedure runs BLSQPRMI to initialize IPCS formatting tables for ABEND and SNAP dump processing.

**System action:** The system ends BLSQPRMI before it updates the IPCS formatting tables for ABEND and SNAP dump processing.

**Operator response:** Notify the system programmer.

**System programmer response:** Use the START command to initiate procedure SYS1.PROCLIB(BLSJPRMI).

**Source:** Interactive problem control system (IPCS)

**Routing Code:** 1,10,11

**Descriptor Code:** 11



## Chapter 8. BLW Messages

**BLW001I THE FOLLOWING CPUS MAY NOT HAVE BEEN RESTARTED AFTER RESTARTABLE WAIT STATE 'www'X [REASON 'reason-code'X]: cpuid1[, cpuid2, ....]**

**Explanation:** The system could not restart at least one processor after the system entered a restartable wait state and the operator initiated a restart.

In the message text:

*www* The restartable wait state code.  
*reason-code* The accompanying reason code. If no reason code was specified, this field contains X'0'.  
*cpuid1, cpuid2* The central processor(s) that the system could not restart.

**System action:** The system continues processing.

**Operator response:** Restart the stopped central processor(s). If you cannot restart the stopped processor(s), reconfigure the the processor(s) offline and configure them back online, using the CONFIG CPU(x), ONLINE/OFFLINE command.

**Source:** Loadwait/Restart

**Routing Code:** 1,10

**Descriptor Code:** 2,4

**BLW002I SYSTEM WAIT STATE X'CCC' QUIESCE FUNCTION PERFORMED**

**Explanation:** The operator entered a QUIESCE command. The system performed the quiesce function.

**System action:** The system enters restartable wait state X'CCC'.

**Operator response:** See the operator response for wait state X'CCC'.

**Source:** Loadwait/Restart

**Detecting Module:** BLWQUIES

**Routing Code:** 1,Note 12

**Descriptor Code:** 11

**BLW003I SYSTEM ERROR ENCOUNTERED DURING QUIESCE**

**Explanation:** The operator entered a QUIESCE command, but the system encountered an error while processing the command.

**System action:** The system does not process the command. The system writes an SVC dump. The system continues processing.

**Operator response:** Enter the command again. If the command fails again, notify the system programmer.

**System programmer response:** Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. Provide the SVC dump.

**Source:** Loadwait/Restart

**Routing Code:** -

**Descriptor Code:** 5

**BLW004A RESTART INTERRUPT DURING {jobname stepname | UNKNOWN JOBNAME} ASID=asid MODE=mode PSW=pppppppp SYSTEM NON-DISPATCHABILITY INDICATOR IS {ON|OFF}**

[*textf*]

**REPLY ABEND TO ABEND INTERRUPTED PROGRAM, RESUME TO RESUME INTERRUPTED PROGRAM, REPAIR TO PERFORM REPAIR ACTIONS. [PREVIOUS REPLY WAS INVALID, ENTER A VALID REPLY.]**

**Explanation:** Where *textf* is one or both of the following:

WRITE-TO-OPERATOR BUFFER LIMIT EXCEEDED  
ISSUE K M,MLIM COMMAND TO RAISE LIMIT  
NO BATCH JOBS OR TIME SHARING USERS FOUND.  
RECOMMEND YOU DISPLAY ACTIVE AND DISPLAY QUEUES

When the operator caused a restart interruption, the specified job was in progress. The message asks the operator to indicate which of the following the system should do:

- Resume or end the job that was in progress
- Perform repair actions.

In the message text:

*jobname* The name of the job that the system was currently processing.

*stepname* The name of the step that the system was currently processing or blanks.

**UNKNOWN JOBNAME**

The system could not identify the current job.

## BLW005I • BLW006W

<b>ASID=asid</b>	The address space identifier (ASID)	<b>WRITE-TO-OPERATOR BUFFER LIMIT EXCEEDED. ISSUE K M,MLIM COMMAND TO RAISE LIMIT</b>
<b>MODE=mode</b>	The system was processing one of the following units of work:  <b>TASK</b> A task <b>SRB</b> A service request <b>WAIT</b> The system wait task *       A unit of work other than those listed above	Enter the CONTROL M,REF command to display the limit. Enter the CONTROL M,MLIM=nnnn command to raise the limit.
<b>PSW=pppppppp</b>	The program status word (PSW) at the time of the restart interruption	<b>NO BATCH JOBS OR TIME SHARING USERS FOUND RECOMMEND YOU DISPLAY ACTIVE AND DISPLAY QUEUES</b>
<b>SYSTEM NON-DISPATCHABILITY INDICATOR IS {OFF ON}</b>	ON if the address spaces are not dispatchable. OFF if the address spaces are dispatchable.	Enter the DISPLAY ACTIVE and/or the DISPLAY QUEUE command to determine if the system is holding a job queue.
<b>[PREVIOUS REPLY WAS INVALID, ENTER A VALID REPLY]</b>	The operator did not enter a valid reply to a previous instance of this message. The only valid replies to this message are: <ul style="list-style-type: none"><li>• ABEND</li><li>• RESUME</li><li>• REPAIR</li></ul>	<b>Source:</b> Loadwait/Restart <b>Routing Code:</b> Note 12 <b>Descriptor Code:</b> -
<b>[texf]</b>	<i>text</i> can be one or both of the following:	<hr/> <b>BLW005I ESTAE COULD NOT BE ESTABLISHED DURING QUIESCE PROCESSING</b> <b>Explanation:</b> The system could not establish a recovery environment. <b>System action:</b> The system continues processing. <b>System programmer response:</b> Search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. <b>Source:</b> Loadwait/Restart <b>Routing Code:</b> - <b>Descriptor Code:</b> 5
<b>WRITE-TO-OPERATOR BUFFER LIMIT EXCEEDED ISSUE K M,MLIM COMMAND TO RAISE LIMIT.</b>	The write to operator (WTO) message buffer is full.	<hr/> <b>BLW006W UNRECOVERABLE MACHINE FAILURE, RE-IPL SYSTEM</b> <b>Explanation:</b> An unrecoverable error occurred. This message accompanies Loadwait/Restart non-restartable, disabled wait state code X'5C7', reason code X'9906'. <b>System action:</b> The system enters disabled, non-restartable wait state X'5C7' with a reason code of X'9906'. <b>Operator response:</b> See the operator response for the accompanying wait state X'5C7'. <b>System programmer response:</b> See the system programmer response for the accompanying wait state X'5C7'. <b>Source:</b> Loadwait/Restart <b>Routing Code:</b> 2,10,Note 12 <b>Descriptor Code:</b> -
<b>RESUME</b>	The job that was in progress continues at the next sequential instruction.	<hr/>
<b>ABEND</b>	The system ends the job with abend X'071'.	
<b>REPAIR</b>	The system checks and repairs critical data areas.	
2. If you receive one of the texts below, you may do one of the following <b>only after</b> replying to message BLW004A:		

---

**BLW007W MULTIPLE ACR ATTEMPTS BY CPU *id***

**Explanation:** A hardware error occurred on a processor. The system could not invoke alternate CPU recovery (ACR) because ACR was already in progress on another processor.

In the message text:

*id* The processor identifier.

**System action:** The system enters disabled wait state X'050'.

**Operator response:** See the operator response for wait state X'050'.

**Source:** Loadwait/Restart

**Routing Code:** Note 12

**Descriptor Code:** -



## Chapter 9. BPX Messages

---

**BPXB001E GROUP ID FOR *group\_name* CANNOT BE OBTAINED. SAF RETURN CODE = *saf\_return\_code*, RACF RETURN CODE = *racf\_rc*, RACF REASON CODE = *racf\_rsn*. TERMINAL GROUP OWNERSHIP WILL NOT BE UPDATED.**

**Explanation:** An error was reported by SAF, RACF or other security product during initialization of z/OS UNIX pseudoterminal support. The following return and reason codes may be returned:

SAF Return Code	RACF Return Code	RACF Reason Code	Explanation
4	0	0	RACF not installed
8	8	4	No z/OS UNIX MVS segment found in group's profile
8	8	8	Group name not defined
8	8	12	Internal error during RACF processing
8	8	16	Unable to establish recovery
8	8	20	No GID in group's z/OS UNIX MVS segment

In the message text:

*group\_name*

The RACF group name associated with opened terminals.

*saf\_return\_code*

The error return code from the system authorization facility (SAF).

*racf\_return\_code*

The error return code from the resource access control facility (RACF) or other security product.

*racf\_rsn*

The error reason code from the resource access control facility (RACF) or other security product.

**System action:** Initialization continues, but the group ownership of terminals will not be updated during open. This will prevent programs such as *talk* from accessing the terminal.

**Operator response:** Notify the system programmer or security administrator.

**System programmer response:** If the return and reason codes indicate that the group is not defined, use the RACF ADDGROUP command to add the group. Be sure to include the OMVS operand and to specify a unique GID.

If the group is defined, but does not have an OMVS segment or a GID, use the RACF ALTPGROUP command to add this information.

The name used is specified in the TTYGROUP initialization parameter, which defaults to TTY. This group name is used for certain programs, such as *talk*, which run as setgid programs. The name specified should match the group owner of such programs.

For other reason codes, contact the IBM Support Center or support for your security product.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXBDCI

**Routing Code:** 1,10

**Descriptor Code:** 3

---

**BPXB002E OCS REQUIRES TCP/IP TO BE ACTIVE. START TCP/IP OR HAVE THE SYSTEM ADMINISTRATOR UNCONFIGURE THE OCS NODES.**

**Explanation:** Outboard Communication Server (OCS) received an indication that TCP/IP is not active. TCP/IP is required for OCS to operate.

**System action:** OCS waits for TCP/IP to become active. There may be up to a two-minute delay between TCP/IP activation and OCS node connection.

**Operator response:** Either start TCP/IP or have the system administrator shut down OCS by issuing the ocsconfig command to unconfigure all OCS nodes. If TCP/IP is active, notify the system programmer.

**System programmer response:** Verify that the TSO/E command OBEYFILE was issued to cause TCP/IP to read the TCP/IP profile dataset. Verify that the IP address is correct for the OCS node. Issue the TSO/E command PING using the IP address or OCS node name to verify the connection. If the cause of the failure cannot be determined, contact the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXBOTBD

**Routing Code:** 1

**Descriptor Code:** 11

---

**BPXB003I OCS *text***

**Explanation:** Outboard Communication Server (OCS) encountered a kernel service failure.

In the message text:

*text*

One of the following:

**SOCKET KERNEL SERVICE FAILED. RETURN CODE = *return\_code*, REASON CODE = *reason\_code*.**

Indicates that a kernel SOCKET service failed.

**BIND KERNEL SERVICE FAILED. RETURN CODE = *return\_code*, REASON CODE = *reason\_code*.**

Indicates that a kernel BIND service failed.

**LISTEN KERNEL SERVICE FAILED. RETURN CODE = *return\_code*, REASON CODE = *reason\_code*.**

Indicates that a kernel LISTEN service failed.

**ACCEPT KERNEL SERVICE FAILED. RETURN CODE = *return\_code*, REASON CODE = *reason\_code*.**

Indicates that a kernel ACCEPT service failed.

**READV KERNEL SERVICE FAILED. RETURN CODE = *return\_code*, REASON CODE = *reason\_code*.**

Indicates that a kernel READV service failed.

**WRITEV KERNEL SERVICE FAILED. RETURN CODE = *return\_code*, REASON CODE = *reason\_code*.**

Indicates that a kernel WRITEV service failed.

**SOCKOPT KERNEL SERVICE FAILED. RETURN CODE = *return\_code*, REASON CODE = *reason\_code*.**

Indicates that a kernel SOCKOPT service failed.

*return\_code*

The return code from the kernel service.

*reason\_code*

The reason code from the kernel service. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** OCS stops running.

**Operator response:** Notify the system programmer.

**System programmer response:** Correct the problem indicated by the return code and then have the system administrator reissue the ocsconfig command to start OCS. If the cause of the failure cannot be determined, contact the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXBOTBD

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXB004E OCS HAS LOST ITS CONNECTION TO THE FOLLOWING NODE(S):**

*ocsnode name* [ , *ocsnode name* [ , *ocsnode name* [ , *ocsnode name* ] ] ]

**Explanation:** The socket connection from the Outboard Communication Server (OCS) host to an OCS node has been broken. Up to four of the nodes that have lost the host connection are listed.

In the message text:

*ocsnode name*

The OCS node name (up to the first 64 characters).

**System action:** OCS waits for the connection to be reestablished.

**Operator response:** Notify the system programmer.

**System programmer response:** Verify that the OCS node is up and running and that the OCS host name on the OCS node system is configured as "available". If the OCS node is to be unavailable for a period of time, have the system administrator unconfigure the OCS node. If more than one node is listed, verify that TCP/IP is up and running.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXBOTBI, BPXBOTBO

**Routing Code:** 1

**Descriptor Code:** 11

---

**BPXC001I THE COMPONENT TRACE PARMLIB OPTION *xxxxxxxx* IS NOT VALID.**

**Explanation:** The system encountered an incorrect option in the component trace parmlib member CTxBPXYy. Verification continues with the examination of the next option specified.

In the message text:

*xxxxxxxx*

The specified option that is incorrect.

**System action:** The system does not start the requested component trace. The default option from CTIBPX00 will be used.

**Operator response:** Contact the system programmer.

**System programmer response:** Examine the options specifications near the indicated character string for a misspelling or other error. Correct the error in the parmlib member before reissuing the command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXCTSSM

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXC002I THE CONTROL BLOCK ID *cbid*, SPECIFIED BY THE CBTR KEYWORD IS NOT SUPPORTED.**

**Explanation:** The system encountered an unsupported control block name specified with the SYSOMVS component trace option CBTR.

In the message text:

*cbid*

The incorrect control block identifier.

**System action:** The system does not process the CBTR option of the SYSOMVS component trace.

**Operator response:** Contact the system programmer.

**System programmer response:** Enter a supported control block name with the SYSOMVS component trace option CBTR.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXCTSSM

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXC003I THE OFFSET *offset*, SPECIFIED BY THE CBTR KEYWORD IS NOT SUPPORTED., 1. MAX LENGTH 4 HEX**

CHARS. 2. VALID OFFSET RANGE  
0-FFFF HEX

**Explanation:** The system encountered an incorrect value for the offset specified with the SYSOMVS component trace option CBTR. The offset specified must not exceed 4 characters and must have a value in the range of 0-FFFF hex.

In the message text:

*offset*

The incorrect offset specified.

**System action:** The system does not process the CBTR option of the SYSOMVS component trace.

**Operator response:** Contact the system programmer.

**System programmer response:** Enter a valid offset in the range 0000-FFFF.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXCTSSM

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXC004I THE LENGTH *length*, SPECIFIED BY THE CBTR KEYWORD IS NOT SUPPORTED. 1. VALID LENGTH RANGE**

1-8

**Explanation:** The system encountered an incorrect value for the length specified with the SYSOMVS component trace option CBTR. The length specified must not exceed four characters and must have a value in the range of 1-8.

In the message text:

*length*

The incorrect length specified.

**System action:** The system does not process the CBTR option of the SYSOMVS component trace.

**Operator response:** Contact the system programmer.

**System programmer response:** Enter a valid length in the range 1-8.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXCTSSM

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXC005I INVALID SYNTAX FOR THE *trace\_option* COMMAND**

**Explanation:** The system encountered incorrect syntax while processing an option in the SYSOMVS component trace options.

In the message text:

*trace\_option*

The incorrect trace option specified.

**System action:** The system does not process the incorrect option of the SYSOMVS component trace.

**Operator response:** Contact the system programmer.

**System programmer response:** Examine the SYSOMVS options specified for a misspelling or other error. Correct the error before reissuing the command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXCTSSM

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXC006I THE COMBINATION OF THE OFFSET AND LENGTH EXCEEDS THE LENGTH OF THE CONTROL BLOCK *trace\_option***

**Explanation:** The system encountered values for the offset and length specified with the SYSOMVS

## BPXF001I • BPXF003I

component trace option CBTR that would exceed the length of the specified control block.

In the message text:

*trace\_option*

The incorrect trace option specified.

**System action:** The system does not process the CBTR option of the SYSOMVS component trace.

**Operator response:** Contact the system programmer.

**System programmer response:** Enter an offset and length that do not exceed the length of the specified control block.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXCTSSM

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXF001I A FILE SYSTEM WITH FILESYSTYPE type FAILED TO INITIALIZE. THE SOFTWARE LEVEL IS INCORRECT.

**Explanation:** During z/OS UNIX initialization, one of the physical file systems could not be initialized.

In the message text:

*type*

The value specified with the TYPE parameter of the FILESYSTYPE statement in the BPXPRMxx parmlib member.

**System action:** How the file system **type** is handled depends on the restart option chosen by the file system.

If the option is to be prompted for restart (which is the default option), the error that caused the problem can be corrected, and then the prompt responded to.

If the option is to not start this file system type, the system will continue to run without that file system type.

**Operator response:** Contact the system programmer.

**System programmer response:** If any of the following are displayed as the FILESYSTYPE, report this to your IBM Support Center: BPXFCSIN, BPXFPIINT, BPXFTCLN, BPXFTSYN.

Try to determine the cause of the failure. Check the level of the software and verify that it is compatible with the level of z/OS UNIX.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLM

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXF002I FILE SYSTEM *name* WAS NOT MOUNTED. RETURN CODE = *return\_code*, REASON CODE = *reason\_code*

**Explanation:** The system could not mount the specified file system.

In the message text:

*name*

The file system name specified on a MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

*return\_code*

The return code from the mount request.

*reason\_code*

The reason code from the mount request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The file system is not mounted. The system continues to process other MOUNT statements.

**Operator response:** Contact the system programmer.

**System programmer response:** Do one of the following:

- Ask the operator to correct the problem in BPXPRMxx. IPL the system to start z/OS UNIX with the revised member.
- Ask a superuser to enter the corrected information using the TSO/E MOUNT command. If the statement in error was the ROOT statement, specify '/' as the mountpoint.

Consult the documentation for the file system type specified with the TYPE parameter on the MOUNT statement in the BPXPRMxx member specified to z/OS UNIX. Make changes as appropriate.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT, BPXFTCLN, BPXTXRMT

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXF003I THE FILE SYSTEM DID NOT INITIALIZE. IT FAILED TO ESTABLISH AN ESTAE. RETURN CODE = *return\_code*

**Explanation:** During z/OS UNIX initialization, the file system could not be initialized.

In the message text:

***return\_code***

The return code. For an explanation of the return code, see the description of the ESTAEX macro in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG*.

**System action:** z/OS UNIX terminates abnormally.

**Operator response:** Contact the system programmer.

**System programmer response:** Contact the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF004I THE FILE SYSTEM DID NOT INITIALIZE. NO ROOT STATEMENT WAS FOUND IN PARMLIB MEMBER *member-name*.**

**Explanation:** During z/OS UNIX initialization, the file system could not be initialized.

In the message text:

***member-name***

The member name processed as a result of the START request.

**System action:** z/OS UNIX terminates abnormally.

**Operator response:** Contact the system programmer.

**System programmer response:** Edit the member and verify that the ROOT statement is correctly specified. Then ask the operator to start z/OS UNIX again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXF005I THE ROOT STATEMENT IN PARMLIB MEMBER *member-name* DID NOT SPECIFY A TYPE THAT MATCHES ANY FILESYSTYPE STATEMENT.**

**Explanation:** During z/OS UNIX initialization or in response to the SET OMVS=(xx) command, the file system could not be initialized.

In the message text:

***member-name***

The member name processed as a result of the START request.

**System action:** z/OS UNIX terminates abnormally.

**Operator response:** Contact the system programmer.

**System programmer response:** Edit the member specified and verify that the TYPE parameter on the ROOT statement specifies a value that is specified on a FILESYSTYPE statement also in the member. Make changes as appropriate. IPL the system to start z/OS UNIX with the revised member.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXF006I A FILE SYSTEM WITH FILESYSTYPE *type* FAILED TO INITIALIZE. IT TERMINATED DURING INITIALIZATION.**

**Explanation:** During z/OS UNIX initialization, one of the physical file systems could not be initialized.

In the message text:

***type***

The value specified with the TYPE parameter of the FILESYSTYPE statement in the BPXPRMxx parmlib member.

**System action:** How the file system ***type*** is handled depends on the restart option chosen by the file system.

If the option is to be prompted for restart (which is the default option), the error that caused the problem can be corrected, and then the prompt responded to.

If the option is to not start this file system type, the system will continue to run without that file system type.

**Operator response:** Contact the system programmer.

**System programmer response:** If any of the following are displayed as the FILESYSTYPE, report this to your IBM Support Center: BPXFCSIN, BPXFPIINT, BPXFTCLN, BPXFTSYN.

Check for error indications that may have been issued by the file system to explain the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLM

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF007I FILE SYSTEM *name* WAS NOT MOUNTED. FILE SYSTEM TYPE *type*, SPECIFIED IN *member-name*, IS NOT ACTIVE.**

**Explanation:** During z/OS UNIX initialization or in response to the SET OMVS=(xx) command, the system could not mount the specified file system. The file system type named on the MOUNT statement was not initialized.

## BPXF008I • BPXF009I

In the message text:

*name*

The file system name specified on the MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

*type*

The value specified on the FILESYSTYPE statement in the specified parmlib member.

*member-name*

The member name containing the MOUNT statement.

**System action:** The file system is not mounted. The system continues to process other MOUNT statements.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify that the FILESYSTYPE statement in the BPXPRMxx parmlib member defines the file system specified with the TYPE parameter on the MOUNT statement.

Do one of the following:

- Ask the operator to correct the problem in BPXPRMxx. IPL the system to start z/OS UNIX with the revised member.
- Ask a superuser to enter the corrected information using the TSO/E MOUNT command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXF008I FILE SYSTEM *name* WAS NOT MOUNTED. THE MOUNT POINT SPECIFIED IN *member-name* DOES NOT EXIST.**

**Explanation:** During z/OS UNIX initialization or in response to the SET OMVS=(xx) command,, the system could not mount the specified file system. The mount point specified for the file system on the MOUNT statement is not defined.

In the message text:

*name*

The file system name specified on the MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

*member-name*

The member name processed as a result of the START request.

**System action:** The file system is not mounted. The system continues to process other MOUNT statements.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify the existence of the mount point specified with the MOUNTPOINT parameter on the MOUNT statement.

Do one of the following:

- Ask the operator to correct the problem in BPXPRMxx. IPL the system to start z/OS UNIX the revised member.
- Ask a superuser to enter the corrected information using the TSO/E MOUNT command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXF009I FILE SYSTEM *name* WAS NOT MOUNTED. THE MOUNT POINT SPECIFIED IN *member-name* IS NOT A DIRECTORY.**

**Explanation:** During z/OS UNIX initialization or in response to the SET OMVS=(xx) command,, the system could not mount the specified file system because the mount point specified for the file system on the MOUNT statement is not a directory. A file system can be mounted only on a directory.

In the message text:

*name*

The file system name specified on the MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

*member-name*

The member name processed as a result of the START request.

**System action:** The file system is not mounted. The system continues to process other MOUNT statements.

**Operator response:** Contact the system programmer.

**System programmer response:**

Verify that the mount point specified with the MOUNTPOINT parameter on the MOUNT statement in the specified member of SYS1.PARMLIB is a directory.

Do one of the following:

- Ask the operator to correct the problem in BPXPRMxx. IPL the system to start z/OS UNIX with the revised member.
- Ask a superuser to enter the corrected information using the TSO/E MOUNT command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXF010I FILE SYSTEM *name* WAS NOT MOUNTED. THE MOUNT POINT SPECIFIED IN *member-name* ALREADY HAS A FILE SYSTEM MOUNTED ON IT.**

**Explanation:** During z/OS UNIX initialization, the system could not mount the specified file system.

The mount point specified for the file system on the MOUNT statement in SYS1.PARMLIB is the root for another mounted file system. A file system cannot be mounted on a root.

In the message text:

*name*

The file system name specified on the MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

*member-name*

The member name processed as a result of the START request.

**System action:** The file system is not mounted. The system continues to process other MOUNT statements.

**Operator response:** Contact the system programmer.

**System programmer response:**

Verify that two mount statements don't specify the same MOUNTPOINT.

Do one of the following:

- Ask the operator to correct the problem in BPXPRMxx. IPL the system to start z/OS UNIX with the revised member.
- Ask a superuser to enter the corrected information using the TSO/E MOUNT command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXF011I A FILE SYSTEM WITH FILESYSTYPE OR SUBFILESYSTYPE type FAILED TO INITIALIZE. A DUPLICATE FILESYSTYPE/SUBFILESYSTYPE STATEMENT WAS FOUND IN PARMLIB MEMBER *member-name*.**

**Explanation:** During z/OS UNIX initialization or in response to the SET OMVS=(xx) command,, a duplicate physical file system could not be initialized.

In the message text:

*type*

The value specified with the TYPE parameter of the FILESYSTYPE statement, or the NAME parameter of the SUBFILESYSTYPE statement in the BPXPRMxx parmlib member named.

*member-name*

The member name processed as a result of the START request.

**System action:** The duplicate file system type was not started. The system will continue to run without that file system.

**Operator response:** Contact the system programmer.

**System programmer response:** Edit the specified member of SYS1.PARMLIB and rename or delete the duplicate FILESYSTYPE/SUBFILESYSTYPE statement. Be sure to change all mounts for the renamed file system to specify the new type. In order to start that file system, IPL the system to start z/OS UNIX with the revised member.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT, BPXTCINT

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXF012I NEITHER FILESYSTEM NOR DDNAME WAS SPECIFIED ON EITHER A MOUNT OR A ROOT STATEMENT IN PARMLIB MEMBER *member-name*.**

**Explanation:** During z/OS UNIX initialization or in response to the SET OMVS=(xx) command, an error was detected while processing the file system statements in the BPXPRMxx parmlib member named.

In the message text:

*member-name*

The member name processed as a result of the START request.

**System action:** The statement is ignored. The system continues to process other SYS1.PARMLIB statements.

**Operator response:** Contact the system programmer.

**System programmer response:** Edit the specified member of SYS1.PARMLIB and correct the problem.

## BPXF013I • BPXF016I

Either FILESYSTEM or DDNAME must be specified on each ROOT and MOUNT statement. Ipl the system to start z/OS UNIX with the revised member.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2,10

**Descriptor Code:** 4

---

### BPXF013I FILE SYSTEM *name* WAS SUCCESSFULLY MOUNTED.

**Explanation:** During z/OS UNIX initialization or in response to the SET OMVS=(xx) command, a file system was successfully mounted.

In the message text:

*name*

The file system name specified on either the ROOT statement or a MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

**System action:** The file system was mounted. The system continues to process other SYS1.PARMLIB statements.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT, BPXFTCLN

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXF014D FILESYSTYPE *type* TERMINATED. REPLY 'R' WHEN READY TO RESTART.

**Explanation:** The named file system type has ended processing.

In the message text:

*type*

The file system type from the FILESYSTYPE statement in the BPXPRMxx parmlib member.

**System action:** The system continues processing without the named file system type. Processing for other file systems continues, but the system does not try to restart the named file system type until the operator responds to this message.

**Operator response:** Gather any error indications, such as diagnostic messages or dump messages, that precede this message. If possible, correct the problem and reply R to restart the file system type. If you cannot

resolve the problem, notify the system programmer.

**System programmer response:** If the operator action did not restart the file system type, use the error indication information to diagnose the problem; then, reply R to restart the file system type. If you cannot, search the problem reporting data base for a fix. If no fix exists, contact IBM Support for the product that failed.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLM

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXF015I THE REPLY IS NOT VALID

**Explanation:** The operator replied incorrectly to a prompt.

**System action:** The prompt is repeated.

**Operator response:** Reply correctly to allow the restart to continue.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLM

**Routing Code:** \*

**Descriptor Code:** 5

---

### BPXF016I *procname* TERMINATING. THE ROOT FILE SYSTEM, FILESYSTYPE *type*, TERMINATED.

**Explanation:** The physical file system identified by the FILESYSTYPE specified failed. Because this physical file system is the file system specified on the ROOT statement, z/OS UNIX must terminate.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

*type*

The value specified with the TYPE parameter of the FILESYSTYPE statement in the BPXPRMxx parmlib member.

**System action:** z/OS UNIX will terminate. The root is required for z/OS UNIX to run.

**Operator response:** Contact the system programmer.

**System programmer response:** Check for error indications that may have been issued by the system to explain the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLM

**Routing Code:** 2**Descriptor Code:** 4

---

**BPXF017I** *procname TERMINATING. FILE SYSTEM, FILESYSTYPE type, TERMINATED.*

**Explanation:** The physical file system identified by the FILESYSTYPE specified failed. Because this is a required physical file system, z/OS UNIX is also terminated.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

*type*

The value specified with the TYPE parameter of the FILESYSTYPE statement in the BPXPRMxx parmlib member.

**System action:** z/OS UNIX will terminate abnormally.

**Operator response:** Contact the system programmer.

**System programmer response:** If any of the following are displayed as the FILESYSTYPE, report this to your IBM Support Center: BPXFCSIN, BPXFPINT, BPXFTCLN, BPXFTSYN.

Check for error indications that may have been issued by the file system to explain the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLM

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF018I** *DEVICE DRIVER INITIALIZATION ROUTINE modname FAILED. RETURN CODE = return\_code*

**Explanation:** During character special file system initialization, a device driver could not be initialized.

In the message text:

*modname*

The name of the module invoked during device driver initialization.

*return\_code*

The return code returned in register 15.

**System action:** The character special file system bypasses the failing device driver and continues to initialize any remaining device drivers.

**Operator response:** Contact the system programmer.

**System programmer response:** Check for error indications that may have been issued by the character special file system to explain the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFCSIN

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF019I** *AN ABEND OCCURRED WHILE PROCESSING DEVICE DRIVER INITIALIZATION ROUTINE modname.*

**Explanation:** During character special file system initialization, an abend occurred during processing of a device driver initialization routine.

In the message text:

*modname*

The name of the module invoked during device driver initialization.

**System action:** The character special file system bypasses the failing device driver and continues to initialize any remaining device drivers.

**Operator response:** Contact the system programmer.

**System programmer response:** Check for error indications that may have been issued by the character special file system to explain the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFCSIN

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF020I** *FILE SYSTEM name MAY BE DAMAGED. RETURN CODE = return\_code, REASON CODE = reason\_code*

**Explanation:** A severe error occurred while the named file system was processing a request. It may have damaged the file system. Unless it was suppressed, there should also be an SDUMP created by the file system. In this case, service should be contacted to handle the problem.

In the message text:

*name*

The file system name specified either on a MOUNT statement in the BPXPRMxx parmlib member or on a MOUNT command.

*return\_code*

The return code from the file system request.

*reason\_code*

The reason code from the file system request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** None. Processing continues, possibly causing further damage to the file system. However, if

## BPXF021I • BPXF023I

you can access the same files that you were accessing when this occurred without further problems, there is probably not any damage to the file system.

**Operator response:** Contact the system programmer.

**System programmer response:** Determine the cause of the error. If necessary, contact the IBM support center for the physical file system that owns the damaged file system.

**Problem determination:** Determine the cause of the error. If necessary, contact the IBM support center for the physical file system that owns the damaged file system.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFVNL

**Routing Code:** 2

**Descriptor Code:** 11

---

**BPXF021I NOT ALL FILE SYSTEMS COULD BE SHUTDOWN WHEN *procname* TERMINATED.**

**Explanation:** During termination, z/OS UNIX detected a potential error condition. The system issued this message and then generated an abend EC6 with a reason code of X'8728'. The system did not create a dump for this abend.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

**System action:** z/OS UNIX termination completes.

**Operator response:** Contact the system programmer.

**System programmer response:** Contact the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF022I A FILE SYSTEM WITH FILESYSTYPE *type* FAILED TO INITIALIZE. THE FILE SYSTEM MUST RUN IN THE OMVS ADDRESS SPACE.**

**Explanation:** During file system initialization, a FILESYSTYPE statement was encountered with the ASNAME parameter specified. This file system can run only in the Kernel address space.

In the message text:

*type*

The value specified with the TYPE parameter of the FILESYSTYPE statement in the BPXPRMxx parmlib member.

**System action:** z/OS UNIX initialization continues without this file system.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify that the ASNAME parameter on the FILESYSTYPE statement in the BPXPRMxx parmlib member is not specified for this physical file system.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTUINT, BPXTIINT, BPXTAMD, BPXTCINT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF023I FILE SYSTEM *name* SPECIFIED ON EITHER A MOUNT OR A ROOT STATEMENT IN PARMLIB MEMBER *member-name* MAY NOT BE MOUNTED ASYNCHRONOUSLY.**

**Explanation:** During z/OS UNIX initialization, the specified file system could not be mounted because the physical file system indicated that the mount would complete asynchronously.

In the message text:

*name*

The file system name specified on either the ROOT statement or a MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

*member-name*

The member name processed as a result of the START request.

**System action:** If the file system was specified on a ROOT statement, z/OS UNIX will instead mount an empty root file system, causing all subsequent mounts to fail. If the file system was specified on a MOUNT statement, the file system is not mounted, and the system continues to process other MOUNT statements.

**Operator response:** Contact the system programmer.

**System programmer response:** Direct the mount to a file system which completes mounts synchronously, mount the file system later using the TSO/E MOUNT command or mount callable service, or direct the file system to complete the mount synchronously at initialization.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXF024I** *text*

**Explanation:** The *text* is the contents of the user's write buffer at the time of the write request is displayed. Messages written to /dev/console by z/OS UNIX applications appear on the MVS console in this message.

**System action:** None.

**Operator response:** None, depending on the contents of the text. If the text contains a message id, refer to the proper documentation for that message to further determine the cause of the message.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXVDCNS

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF025I** **FILE SYSTEM** *name* **IS BEING MOUNTED.**

**Explanation:** During z/OS UNIX initialization or in response to the SET OMVS=(xx) command, the physical file system began mount processing for a file system. The file system will not be available until the physical file system completes mount processing for it.

In the message text:

*name*

The file system name specified on a MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

**System action:** The file system is not available. The system continues to process other SYS1.PARMLIB statements.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF026I** **FILE SYSTEM** *name* **WAS ALREADY MOUNTED.**

**Explanation:** During z/OS UNIX initialization, a file system was found to be already mounted.

In the message text:

*name*

The file system name specified on either the ROOT statement or a MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

| **System action:** The system continues to process other SYS1.PARMLIB statements.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF027I** **FILE SYSTEM** *name* **MOUNT DELAYED BECAUSE MOUNT POINT** *mpname* **CANNOT BE RESOLVED. RETURN CODE =** *recode*, **REASON CODE =** *reason*

**Explanation:** OMVS was unable to resolve the mount point path name while attempting to mount a file system that was mounted by another system in the sysplex.

The file system that contains the mount point may have become inaccessible because the system that was serving the file system failed and sysplex partition recovery processing could not establish a new file system server. No mounts that have mount points in the inaccessible file system will succeed until the inaccessible file system is recovered.

For example, if the file system is mounted with the Automove=NO option then no attempt is made to recover the file system. Another example is that mount point directory may have been removed if the mount point file system was owned by another system that had not yet processed the mount. In this case, the file system should be unmounted from the owning system, since it will not be accessible.

In the message text:

*name*

The file system name specified either on a MOUNT statement in the BPXPRMxx parmlib member or on a MOUNT command.

## BPXF028I • BPXF029E

### *mpname*

The mount point path name specified either on a MOUNT statement in the BPXPRMxx parmlib member or on a MOUNT command, or the last 64 characters of it.

### *retcode*

The return code from the file system request.

### *reason*

The reason code from the file system request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The mount will be reattempted the next time a mount is processed in the sysplex. At that time, another attempt will be made to resolve the mount point path name and complete the mount. However, if the mount point directory has been removed, the mount will never be successful.

**Operator response:** Contact the system programmer.

**System programmer response:** If a file system containing one of the directories in the mount point path name is not mounted, then mount it. If one of those directories has been renamed, then restore the original name, either by again renaming the directory or by creating a symbolic link with the old name. If the mount point directory has been removed, then unmount the file system from the owning system and mount it again on a valid mount point.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXRMT

**Routing Code:** 2

**Descriptor Code:** 4

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**BPXF028I FILE SYSTEM *name* WAS NOT MOUNTED. RETURN CODE = *return\_code*, REASON CODE = *reason\_code***

**Explanation:** The system could not complete mounting the specified file system.

In the message text:

### *name*

The file system name specified on a MOUNT request. For the HFS file system, it refers to the name of the HFS data set containing the file system.

### *return\_code*

The return code from the mount request.

### *reason\_code*

The reason code from the mount request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The partially mounted file system is unmounted.

**Operator response:** Contact the system programmer.

**System programmer response:** Consult the documentation for the file system type specified with the TYPE parameter on the MOUNT request. Ask a superuser to enter the corrected information using the TSO/E MOUNT command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFTCLN

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF029E ROOT FILE SYSTEM *name* WAS NOT MOUNTED. RETURN CODE = *return\_code*, REASON CODE = *reason\_code***

**Explanation:** During z/OS UNIX initialization or in response to the SET OMVS=(xx) command, the system could not mount the specified file system.

In the message text:

### *name*

The file system name specified on a ROOT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

### *return\_code*

The return code from the mount request.

### *reason\_code*

The reason code from the mount request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The file system is not mounted. The system is activated without a ROOT.

For a shared file system configuration, if the ROOT FILE SYSTEM was already mounted and owned by another system, OMVS will fail to initialize and will SHUTDOWN.

**Operator response:** Contact the system programmer.

**System programmer response:** Do one of the following:

- Ask the operator to correct the problem in BPXPRMxx. IPL the system to start z/OS UNIX with the revised member.
- Ask a superuser to enter the corrected information using the TSO/E MOUNT command. In this case specify '/' as the mountpoint.

Consult the documentation for the file system type specified with the TYPE parameter on the ROOT statement in the BPXPRMxx member specified to z/OS UNIX. Make changes as appropriate.

If this is a shared file system configuration and the ROOT file system is already mounted, this mount failure may be a temporary condition. If the reported RETURN CODE is EMVSERR (x"9D") and the REASON CODE is JRTgtMemberInactive (X"xxxx03CC") then the server for the ROOT file system has failed and a new server is being established. Issue the F OMVS,RESTART system command to restart OMVS.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2

**Descriptor Code:** 11

---

**BPXF030I MAXSOCKETS HAS BEEN REACHED FOR DOMAIN *domain-name*. REQUESTS FOR SOCKETS MAY BE DENIED.**

**Explanation:** While processing either a socket() or an accept() request the value specified for MAXSOCKETS was reached. Any requests for new sockets will be denied until some of the currently allocated sockets are closed.

In the message text:

*domain-name*

The domain name specified on the NETWORK statement in the BPXPRMxx parmlib member.

**System action:** This is just an informational message so that the operator will be aware that users may be being rejected. This message will only be issued once per IPL when the condition is first detected.

**Operator response:** Contact the system programmer.

**System programmer response:** Consider raising the MAXSOCKETS value specified in the BPXPRMxx parmlib member that was used to start z/OS UNIX. This new value will take effect with the next system IPL.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTSSMI, BPXTSSMU

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXF031I A FILE SYSTEM WITH SUBFILESYSTYPE *type* WAS INCORRECTLY SPECIFIED AS THE DEFAULT TRANSPORT DRIVER IN PARMLIB MEMBER *member-name***

**Explanation:** During z/OS UNIX initialization, the DEFAULT parameter was found on a file system that

cannot be specified as the default transport driver.

In the message text:

*type*

The value specified with the NAME parameter of the SUBFILESYSTYPE statement in the BPXPRMxx parmlib member named.

*member-name*

The member name processed as a result of the START request.

**System action:** The DEFAULT specification is ignored. Initialization continues as if no default was specified.

**Operator response:** Contact the system programmer.

**System programmer response:** If a default other than the generic default is desired, edit the member in SYS1.PARMLIB and move the DEFAULT parameter to the SUBFILESYSTYPE statement that is intended to be the default. In order to have the changes take effect, a re-IPL of the system is needed.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCINT

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXF032D FILESYSTYPE *type* TERMINATED. REPLY 'R' WHEN READY TO RESTART. REPLY 'I' TO IGNORE.**

**Explanation:** The named file system type has ended processing.

In the message text:

*type*

The file system type from the FILESYSTYPE statement in the BPXPRMxx parmlib member.

**System action:** The system continues processing without the named file system type. Processing for other file systems continues, but the system does not try to restart the named file system type until the operator responds to this message.

**Operator response:** Gather any error indications, such as diagnostic messages or dump messages, that precede this message. If possible, correct the problem and reply R to restart the file system type. If you cannot resolve the problem, contact the system programmer. If processing can continue without this file system type reply I to remove the prompt and leave this file system terminated.

**System programmer response:** If operator action did not restart the file system type, use the error indication information to diagnose the problem, then reply R to restart the file system type. If you cannot, search the problem reporting data base for a fix. If no fix exists, contact IBM support for the product that failed. If the

## BPXF033I • BPXF034I

reply to this message was I, and you later want to restart that file system type, use SETOMVS RESET=xx.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLM

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF033I A FILESYSTEM WITH THE FILESYSTYPE OR SUBFILESYSTYPE NAME *type* FAILED TO INITIALIZE. THE MAXIMUM FILESYSTYPE OR SUBFILESYSTYPE STATEMENTS HAVE ALREADY BEEN PROCESSED. THE PARMLIB MEMBER PROCESSED AT THE TIME WAS *member-name*.**

**Explanation:** During z/OS UNIX initialization or reset, a physical file system could not be initialized. The maximum number of sub-file systems have already been specified. The maximum number is 32.

In the message text:

*type*

The value specified with the TYPE parameter of the FILESYSTYPE statement, or the NAME parameter of the SUBFILESYSTYPE statement in the BPXPRMxx parmlib member named.

*member-name*

The member name being processed when the limit was reached.

**System action:** The sub-file system type was not started. The system will continue to run without that sub-file syst-em.

**Operator response:** Contact the system programmer.

**System programmer response:** Edit the specified member of SYS1.PARMLIB and delete unnecessary SUBFILESYSTYPE statements.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCTINT

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXF034I THE FOLLOWING FILE SYSTEM HAS BEEN QUIESCED FOR MORE THAN 10 MINUTES: *name***

**Explanation:** The file system is quiesced and will not be usable until it is unquiesced.

In the message text:

*name*

The file system name.

**System action:** The file system can't be used.

**Operator response:** If the condition persists, contact the system programmer.

**System programmer response:** The file system can only be unquiesced by an authorized user. To unquiesce the file system, use the ISPF Shell (ISHELL) to **Reset unmount or quiesce** from the **Work with Mounted File Systems** panel (BPXWPS20).

Note that for a shared file system configuration, the attempt to unquiesce a quiesced sysplex root file system will fail if the authorized user ID you use was defined with an OMVS HOME directory, and the user ID is not already active (logged in and dubbed).

Use the D OMVS,U=*userid* system command to determine if the authorized user is dubbed. In a RACF environment, issue the following RACF command from the TSO command line to alter a userid to have no HOME directory.

```
alu userid omvs(home(''))
```

Additionally, the ISPF Shell (ISHELL) cannot be used to unquiesce the sysplex root because it attempts to access the root file system resources during its initialization processing. The following REXX exec can be executed from the TSO command line (from the userid with no HOME directory) to unquiesce the sysplex root HFS file system with name 'ZOS17.SYSPLEX.ROOT.HFS'. Note that the user ID you use must be a superuser ID (UID=0) with NO HOME directory specified:

```
/* REXX */
address syscall
call syscalls('ON')
unquiesce ZOS17.SYSPLEX.ROOT.HFS 1
```

Alternatively, you can use a non-UID 0 user (with NO HOME directory specified) to unquiesce the file system if the user is permitted to the BPX.SUPERUSER facility class. In this case, the REXX exec must also include a seteuid 0 call, as follows:

```
/* REXX */
address syscall
call syscalls('ON')
seteuid 0
unquiesce ZOS17.SYSPLEX.ROOT.HFS 1
```

Another possible reason that this message is issued is because a backup is currently in progress. If the reason for the quiesce is unknown, contact the IBM support center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFTSYN

**Routing Code:** 2

**Descriptor Code:** 11

**BPXF035I timestamp MODIFY  
BPXOINIT,FILESYS=DISPLAY**

*text*

**Explanation:** In the message, *text* is:

```
-----NAME----- DEVICE MODE
filesysname device filemode
AGGREGATE NAME=aggname
PATH=pathname
PARM=parmname
STATUS=filestatus LOCAL STATUS=filestatus
OWNER=fsowner RECOVERY OWNER=recfsowner automove pfsmove
QSYSTEM=fqsystem QJOBNAME=fqowner QPID=qpid
TYPENAME=type MOUNTPOINT DEVICE=mptdevice
MOUNTPOINT FILESYSTEM=mountfsname
ENTRY FLAGS=mptflags FLAGS=vfsflags LFSFLAGS=vfsflsflags
LOCAL FLAGS=lvfsflags LOCAL LFSFLAGS=lvfsflsflags
SYSLIST STS=syliststs SYSLIST VALID=sylistv
sylisttype sylistnum
sylistname sylistname sylistname sylistname sylistname
analysis
```

In response to a MODIFY BPXOINIT,FILESYS=DISPLAY command, this message displays information about the global UNIX System Services file system representation in the sysplex.

In the message text:

*timestamp*

The date and local time for the MODIFY command output. The date is represented as year/month/day, and the time is represented as hours (00–23), minutes (00–59), and seconds (00–59).

*filesysname*

The name of the file system.

*device*

The device number to uniquely identify the file system.

*filemode*

One of the following:

**RDWR**

The file system is mounted for read/write access.

**READ**

The file system is mounted for read only access.

*aggname*

The name of the aggregate data set containing the file system.

*pathname*

The name of the directory where the file system is mounted, truncated to 64 characters.

*parmname*

The parameters specified on the file system MOUNT, truncated to 63 characters.

*filestatus*

One of the following:

**ACTIVE**

The file system is active.

### MOUNT IN PROGRESS

The file system is being mounted.

### UNMOUNT IN PROGRESS

The file system is being unmounted.

### QUIESCE IN PROGRESS

The file system is being quiesced.

### QUIESCED

The file system is quiesced.

### IN RECOVERY

The file system is in recovery.

### UNOWNED

The file system has no server or owner.

### UNUSABLE

The file system is unusable and must be unmounted.

### NOT ACTIVE

The file system is not active.

### REMOUNT IN PROGRESS

The file system is being remounted.

*fsowner*

The system that owns (serves) this file system.

*recfsowner*

The system that must recover this file system if AUTOMOVE=N or PFSMOVE=N is indicated.

*automove*

One of the following:

### AUTOMOVE=Y

The file system will be automatically moved during recovery operations.

### AUTOMOVE=N

The file system will NOT be automatically moved during recovery operations.

### AUTOMOVE=U

The file system will be automatically unmounted during recovery operations.

### AUTOMOVE=I

The file system will be automatically moved during recovery operations using the INCLUDE system list specified on the MOUNT command.

### AUTOMOVE=E

The file system will be automatically moved during recovery operations using the EXCLUDE system list specified on the MOUNT command.

*pfsmove*

One of the following:

### PFSMOVE=Y

The PFS allows the file system to be moved in the event of a server system failure.

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<b>PFSMOVE=N</b>	The PFS does not allow the file system to be moved in the event of a server system failure.	<b>syslistname</b>	The name of the system in the system list.
<b>fsqsystem</b>	The system that quiesced this file system.	<b>analysis</b>	One of the following:
<b>fsqowner</b>	The jobname that quiesced the file system.	<b>*STATUS AND LOCAL STATUS ARE INCONSISTENT</b>	The global file system status is not consistent with the local file system status.
<b>qpid</b>	The pid that quiesced the file system.	<b>*FLAGS AND LOCAL FLAGS ARE INCONSISTENT</b>	An inconsistency is found in the global and local FLAGS fields.
<b>type</b>	The file system type as defined by the FILESYSTYPE statement.	<b>*LFSFLAGS AND LOCAL LFSFLAGS ARE INCONSISTENT</b>	An inconsistency is found in the global and local LFSFLAGS fields.
<b>mptdevice</b>	The device number of the file system owning the mount point directory.	<b>System action:</b>	The system continues processing.
<b>mountsname</b>	The name of the file system owning the mount point directory.	<b>Operator response:</b>	None.
<b>mptflags</b>	Flags field in the file system entry. This field is for use by the IBM support center.	<b>System programmer response:</b>	None.
<b>vfsflags</b>	VfsFlags field in the global representation of the file system. This field is for use by the IBM support center.	<b>Source:</b>	z/OS UNIX System Services kernel (BPX)
<b>vfsflsflags</b>	VfsLfsFlags field in the global representation of the file system. This field is for use by the IBM support center.	<b>Detecting Module:</b>	BPXTXRDA
<b>lvfsflags</b>	VfsFlags field in the local representation of the file system. This field is for use by the IBM support center.	<b>Routing Code:</b>	2
<b>lvfsflsflags</b>	VfsLfsFlags field in the local representation of the file system. This field is for use by the IBM support center.	<b>Descriptor Code:</b>	5,8
		<b>BPXF036I MODIFY PROCESSING FOR BPXOINIT FILESYS FAILED. RETURN CODE = retcode, REASON CODE = reason.</b>	
		<b>Explanation:</b>	A general error occurred when z/OS UNIX attempted to process the file system function specified in a previous MODIFY command.
		In the message text:	
		<b>retcode</b>	The return code obtained when attempting to perform the requested MODIFY function.
		<b>reason</b>	The reason code obtained when attempting to perform the requested MODIFY function. For an explanation of the return code and reason code, see <i>z/OS UNIX System Services Messages and Codes</i> .
		<b>System action:</b>	The MODIFY processing is terminated.
		<b>Operator response:</b>	Contact your system administrator.
		<b>System programmer response:</b>	Determine the cause of the error. If necessary, contact the IBM support center.
		<b>Source:</b>	z/OS UNIX System Services kernel (BPX)
		<b>Detecting Module:</b>	BPXTXRDA

- | **Routing Code:** -
- | **Descriptor Code:** 4,8

---

**BPXF037I FILE SYSTEM *name* NOT FOUND.**

| **Explanation:** The specified file system does not exist in the sysplex file system hierarchy.

| In the message text:

| *name*  
|     The file system name specified on the MODIFY  
|     BPXOINIT,FILESYS console command.

| **System action:** The MODIFY processing is complete.

| **Operator response:** None.

| **System programmer response:** None.

| **Source:** z/OS UNIX System Services kernel (BPX)

| **Detecting Module:** BPXTXRDA

| **Routing Code:** -

| **Descriptor Code:** 4,8

---

**BPXF038I NO FILE SYSTEMS FOUND.**

| **Explanation:** No file systems exist in the file system hierarchy that match the specified search criteria.

| **System action:** The MODIFY processing is complete.

| **Operator response:** None.

| **System programmer response:** None.

| **Source:** z/OS UNIX System Services kernel (BPX)

| **Detecting Module:** BPXTXRDA

| **Routing Code:** -

| **Descriptor Code:** 4,8

---

**BPXF039I FILE SYSTEM ANALYSIS IS DELAYED DUE TO CONTENTION FOR THE MOUNT LATCH, LATCH NUMBER *latchnum*.**

| **Explanation:** This message is issued in response to a previously issued MODIFY BPXOINIT,FILESYS system command, or a similar file system diagnostic function. The requested function is delayed because the file system mount latch cannot be obtained. The latch in contention is in latch set SYS.BPX.A000.FSLIT.FILESYS.LSN.

| In the message text:

| *latchnum*  
|     The latch number in contention (in decimal).

| **System action:** File system diagnostic processing will wait for the latch to become available.

| **Operator response:** Contact the system programmer.

| **System programmer response:** If processing is delayed for a significant amount of time, issue the DISPLAY GRS,LATCH,C command to review latch contention. If a latch deadlock exists, or the MODIFY processing continues to be delayed, then a restart of this system may be necessary.

| Contact the IBM Service Center.

| **Source:** z/OS UNIX System Services kernel (BPX)

| **Detecting Module:** BPXTXCDR

| **Routing Code:** 1

| **Descriptor Code:** 2

---

**BPXF040I MODIFY BPXOINIT,FILESYS PROCESSING IS COMPLETE.**

| **Explanation:** This message is issued in response to a previously issued MODIFY BPXOINIT,FILESYS system command. The requested function has completed.

| **System action:** The MODIFY processing is complete.

| **Operator response:** A new MODIFY BPXOINIT command for a FILESYS function may be issued.

| **System programmer response:** None.

| **Source:** z/OS UNIX System Services kernel (BPX)

| **Detecting Module:** BPXTXRDA

| **Routing Code:** -

| **Descriptor Code:** 4,8

---

**BPXF041I *timestamp* MODIFY BPXOINIT,FILESYS=DISPLAY,GLOBAL**

| *text*

| **Explanation:** In the message, *text* is:

```
SYSTEM LFS VERSION ---STATUS----- RECOMMENDED ACTION
system ver pro mod sysstatus
CDS VERSION=cdsver MIN LFS VERSION= ver pro mod
BRLM SERVER=brlm.sysname DEVICE NUMBER OF LAST MOUNT=lastmountdevice
MAXIMUM MOUNT ENTRIES=maxmounts MOUNT ENTRIES IN USE=activemounts
MAXIMUM ANTRULES=maxantrul AMTRULES IN USE=amtrulinuse
DISTBRLM ENABLED=YES|NO|N/A DISTBRLM ACTIVE=YES|NO
serializationcategory
(Since datetime)
    sysname      sysname      sysname      sysname      sysname      sysname
    FILESYSTEM NAME=fname
    NUMBER OF UNMOUNTS IN PROGRESS=numunmounts
queueuname
cattype                      execution
```

In response to a MODIFY BPXOINIT,FILESYS=DISPLAY,GLOBAL command, this message displays system information about the UNIX System Services member status of each system in the SYSPBX sysplex group.

In the message text:

*timestamp*  
The date and local time for the MODIFY command

## BPXF041I

output. The date is represented as year/month/day, and the time is represented as hours (00–23), minutes (00–59), and seconds (00–59).

### *system*

The name of the system in the sysplex for which status is being provided.

### *ver*

The LFS functional capability version.

### *pro*

The LFS protocol version.

### *mod*

The LFS protocol modification level.

### *sysstatus*

One of the following:

#### **VERIFIED**

Sysplex and local state are consistent.

#### **SYSTEM NAME INCONSISTENT**

The system name is inconsistent between the sysplex representation and the local representation.

#### **MEMBER TOKEN INCONSISTENT**

The member token is inconsistent between the sysplex representation and the local representation.

#### **SYSTEM ID INCONSISTENT**

The system ID is inconsistent between the sysplex representation and the local representation.

### *action*

One of the following:

#### **NONE**

There is no recommended recovery action to take.

#### **FIX**

There is an inconsistency in the sysplex representation of this system.

Use the MODIFY BPXOINIT,FILESYS=FIX system command to further diagnose and possibly correct this inconsistency.

After performing the FIX function, if the inconsistency persists, a restart of the named system may be required to correct the error.

### *cdsver*

The version of the type BPXMCDS couple dataset.

### *brlmsysname*

The name of the system in a z/OS UNIX System Services sysplex that is functioning as the Byte Range Lock Manager server. *brlmsysname* = 'N/A' when either no z/OS UNIX System Services sysplex is active, or when the distributed BRLM function is active in z/OS UNIX System Services sysplex.

### *lastmountdevice*

The device number of the last file system mounted in the sysplex.

### *maxmounts*

The maximum number of file systems that can be mounted in the active type BPXMCDS couple data set. This value corresponds to the NUMBER parameter specified in the MOUNTS item name statement in the JCL used to format the type BPXMCDS couple data set. See SYS1.SAMPLIB(BPXISCD) for a sample JCL job.

### *activemounts*

The number of mount entries in the active type BPXMCDS couple data set that are in use.

### *maxamtrul*

The maximum number of automount rules defined for the type BPXMCDS couple data set. This value corresponds to the NUMBER parameter specified in the AMTRULES item name statement in the JCL used to format the type BPXMCDS couple data set. See SYS1.SAMPLIB(BPXISCD) for a sample JCL job.

### *amtrulineuse*

The number of automount rules in the active type BPXMCDS couple data set that are in use. An automount rule is required for each generic or specific entry in an automount map file.

### | **DISTBRLM ENABLED=YESINO/N/A**

YES indicates that Distributed BRLM is enabled in the shared file system Configuration. This value corresponds to a NUMBER(1) value specified in the DISTBRLM item name statement in the JCL used to format the type BPXMCDS couple data set. See SYS1.SAMPLIB(BPXISCD) for a sample JCL job.

NO indicates that Distributed BRLM is not enabled in the shared file system configuration. This value corresponds to a NUMBER(0) value specified or defaulted to in the DISTBRLM item name statement in the JCL used to format the type BPXMCDS couple data set. See SYS1.SAMPLIB(BPXISCD) for a sample JCL job.

| N/A indicates that the DISTBRLM indicator in BPXMCDS is ignored.

### **DISTBRLM ACTIVE=YESINO**

YES indicates that Distributed BRLM is active on all systems in the shared file system configuration.

NO indicates that Distributed BRLM is not active in the shared file system configuration.

### *serializationcategory*

One of the following:

#### **SYSTEM PERFORMING INITIALIZATION**

This entry lists the system that is performing file system initialization.

**SYSTEM PERFORMING MOVE**

This entry lists the system that is in the process of moving ownership of a file system to another system.

**SYSTEM PERFORMING QUIESCE**

This entry lists the system that is in the process of quiescing a file system that it serves.

**SYSTEMS PERFORMING UNMOUNT**

This entry lists the systems that are in the process of unmounting one or multiple file systems that they serve.

**SYSTEMS PERFORMING MOUNT RESYNC**

This entry lists the systems that are in the process of updating their local file system hierarchy to be consistent with the file system hierarchy.

**SYSTEMS PERFORMING LOCAL FILE SYSTEM RECOVERY**

This entry lists the systems that are in the process of performing local file system recovery resulting from a system exiting the SYSBPX sysplex group.

**SYSTEMS PERFORMING FILE SYSTEM TAKEOVER RECOVERY**

This entry lists the systems that are in the process of performing file system takeover recovery resulting from a system exiting the SYSBPX sysplex group.

**SYSTEMS RECOVERING UNOWNED FILE SYSTEMS**

This entry lists the systems that are in the process of performing file system takeover recovery for one or more unowned file systems.

**SYSTEMS PERFORMING REPAIR UNMOUNT**

This entry lists the systems that are in the process of performing a repair unmount, which is initiated as a result of MODIFY BPXOINIT,FILESYS=FIX or FILESYS=UNMOUNTALL system command, or a similar file system diagnostic function.

**SYSTEM PERFORMING REMOUNT**

This entry lists the system that is in the process of remounting a file system.

***datetime***

The date (year/month/day) and time in hours (00–23) minutes (00–59), and seconds (00–59) that this category of processing was started.

***sysname***

The name of the system associated with the event.

***fsname***

The name of the file system associated with this event.

***numunmounts***

The number of file systems that are in the process of being unmounted.

***queueuname***

One of the following:

**ACTIVE QUEUE**

This entry lists the active serialization categories.

**PENDING QUEUE**

This entry lists the pending serialization categories.

***cattype***

One of the following:

**MOUNT RESYNC**

One or more systems are in the process of updating their local file system hierarchy to be consistent with the sysplex hierarchy.

**UNMOUNT**

One or more systems are in the process of unmounting one or more file systems.

**UNOWNED RECOVERY**

One or more systems are in the process of recovering unowned file systems.

**MOVE**

A system is in the process of moving ownership of one or more file systems to another system.

**UNMOUNT SUBTREE**

One or more file systems are in the process of being unmounted.

**RECOVERY**

One or more systems are in the process of recovering file systems. This is performed as part of partition recovery.

**INTERVAL**

One or more systems are waiting for an interval when there is no serialized shared file system activity in progress.

**REMOUNT**

A system is in the process of remounting a file system.

**\*\*INVALID\*\***

An invalid value was found.

***execution***

One of the following:

**EXCLUSIVE**

One operation in this serialization category is allowed.

**SHARED**

Multiple, concurrent operations in this serialization category are allowed.

**System action:** The system continues processing.

## BPXF042I • BPXF045A

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXRDA

**Routing Code:** -

**Descriptor Code:** 5,8

---

**BPXF042I POSSIBLE CONTENTION FOR THE FILE SYSTEM MOUNT LATCH EXISTS ON SYSTEM *system*, LATCH NUMBER *latchnum*.**

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS=FIX system command, or a similar shared file system diagnostic function. Contention for the file system mount latch exists on the named system. Contention for the mount latch affects file system functions such as mount, unmount, move and file system server recovery.

In the message text:

*system*

The name of the system that has possible latch contention.

*latchnum*

The latch number in contention.

**System action:** The analysis and repair of the shared file system hierarchy continues.

**Operator response:** Contact the system programmer.

**System programmer response:** Issue the "D GRS,LATCH,C" command on the specified system to review latch contention. File system latches belong to latch set SYS.BPX.A000.FSLIT.FILESYS.LSN. If contention exists and persists, a restart of this system may be required to clear hierarchical file system delays.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXSTS

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF043I AN SVC DUMP OF FILE SYSTEM RESOURCES IS BEING CAPTURED. THE DUMP TIMESTAMP=*timestamp*.**

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS system command, or a similar shared file system diagnostic function. An SVC dump is being captured as a normal part of the diagnostic function.

In the message text:

*timestamp*

The date and local time when the dump is captured. The time stamp is included in the dump

title. The date is represented as year/month/day, and the time is represented as hours (00–23), minutes (00–59), and seconds (00–59).

**System action:** The system is capturing file system data for subsequent analysis. The file system diagnostic function that initiated the dump will continue once the capture phase is complete.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDR

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF044I THE FUNCTION DID NOT COMPLETE DUE TO ACTIVE LOCAL FILE SYSTEM RECOVERY.**

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS system command. The function ended prematurely because local file system recovery is in progress on at least one system in the sysplex. Performing the FILESYS function now could cause erroneous processing.

**System action:** The MODIFY command ends prematurely.

**Operator response:** Use the "MODIFY BPXOINIT,FILESYS=DISPLAY,GLOBAL" command to determine which systems are performing "Local Filesystem Recovery". If this processing does not complete within a reasonable timeframe, further analysis of these systems may be necessary.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF045A THE LOCAL SYSBPX MEMBER REPRESENTATION IS INCORRECT.**

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS system command, or a similar shared file system diagnostic function. The processing ended prematurely because the local SYSBPX member list is inconsistent with the XCF representation. This error may also cause unpredictable file system processing for functions that require cross system communication.

**System action:** The file system diagnostic processing ends prematurely.

**Operator response:** This system should be restarted.

**System programmer response:** Contact the IBM support center to report this problem. An SVC dump should have been captured as a part of the file system diagnostic processing. Provide this dump to IBM for problem analysis.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 1

**Descriptor Code:** 2

**BPXF046I FILE SYSTEM *fsname* AND ALL DEPENDENT FILE SYSTEMS ARE BEING UNMOUNTED.**

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS system command, or a similar shared file system diagnostic function. The named file system and dependent file systems are being unmounted. An inconsistency was detected for the named file system.

In the message text:

*fsname*

The name of the file system that is being unmounted.

**System action:** The named file system and all dependent file systems are being unmounted. File system analysis and repair continues.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 2

**Descriptor Code:** 4,8

**BPXF047I FILE SYSTEM *fsname* AND ALL DEPENDENT FILE SYSTEMS COULD NOT BE UNMOUNTED.**

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS system command, or a similar shared file system diagnostic function. The named file system and all dependent file systems need to be unmounted because an inconsistency was detected. Attempts to unmount the file systems failed due to ongoing file system activity.

In the message text:

*fsname*

The file system name.

**System action:** File system analysis and repair continues.

**Operator response:** Unmount the specified file system and all dependent file systems using the

MODIFY BPXOINIT,FILESYS=UNMOUNT,FILESYSTEM=*filesysname* command. The dependent file systems must be unmounted first.

Alternately, the MODIFY BPXOINIT,FILESYS=UNMOUNTALL command can be used to unmount the complete file system hierarchy. Once this is done, use the "MODIFY BPXOINIT,FILESYS=REINIT" command to re-mount the initial file system hierarchy.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 2

**Descriptor Code:** 4,8

**BPXF048I A CORRECTIVE ACTION WAS PERFORMED TO THE FILE SYSTEM HIERARCHY: *action* DIAGNOSTIC DATA = *eventdata***

**Explanation:** This message is issued as part of the MODIFY BPXOINIT,FILESYS system command, or a similar shared file system diagnostic function. A corrective action was taken for the file system hierarchy. This message is provided primarily for IBM Service problem analysis.

In the message text:

*action*

An action which should be given to the IBM Support Center.

*eventdata*

Event-specific data for IBM problem analysis.

**System action:** The described change was made to the global file system hierarchy. Processing continues.

**Operator response:** Contact the system programmer.

**System programmer response:** Contact the IBM Support Center to report the defect identified by this message. The console log containing this message, and any corresponding dump, should be provided.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 2

**Descriptor Code:** 4,8, HARDCOPY ONLY

**BPXF049I *type* PROCESSING FOR FILE SYSTEM *fsname* REQUIRES RESPONSES FROM THE FOLLOWING SYSTEMS: *sysnames***

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS system command, or a similar shared file system diagnostic function. The named file system is in the process of unmounting, quiescing, or remounting, and the processing appears to

## BPXF050I • BPXF052I

be delayed. For quiesce processing, the quiesce actually may be a part of file system move processing. The message identifies the systems that have not yet performed the specified operation locally.

In the message text:

**type**

One of the following:

**UNMOUNT**

Unmount processing is delayed.

**QUIESCE**

Quiesce processing is delayed.

**REMOUNT**

Remount processing is delayed.

**fsname**

The name of the file system that is being unmounted or quiesced.

**sysnames**

The names of the systems that have not completed the function.

**System action:** File system diagnostic analysis continues.

**Operator response:** Issue the "D GRS,LATCH,C" command on each named system to determine if file system latch contention exists. The file system latch set is SYS.BPX.A000.FSLIT.FILESYS.LSN. If latch contention does exist and persists, the named system should be restarted.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXSTS

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF050I THE FIX FUNCTION DID NOT PERFORM ALL ANALYSIS DUE TO CONTINUOUS SERIALIZATION TIMEOUTS.**

**Explanation:** This message is issued as a part of the MODIFY BPXINIT,FILESYS=FIX system command. The FIX function ended prematurely because serialized access to the active type BPXMCDS couple dataset could not be maintained.

**System action:** The FIX operation ends prematurely.

**Operator response:** Reissue the "MODIFY BPXINIT,FILESYS=FIX" command. If the problem persists, contact the System Programmer.

**System programmer response:** Verify that the active type BPXMCDS couple dataset is operational and is not experiencing any I/O errors. If no problem can be identified, contact the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF051I THE MODIFY FUNCTION CANNOT BE PERFORMED BECAUSE ALL SYSTEMS ARE NOT AT A COMPATIBLE SOFTWARE LEVEL.**

**Explanation:** This message is issued in response to a MODIFY BPXINIT,FILESYS system command. The requested function cannot be performed because cross-system messaging is required for the function, and not all systems in the sysplex are at a compatible software level.

**System action:** The MODIFY command is rejected.

**Operator response:** Issue the MODIFY BPXINIT,FILESYS=DISPLAY,GLOBAL system command to view the active systems in the SYSBPX sysplex group. The minimum LFS VERSION of each system to perform the requested FILESYS function is 1.1.0.

**System programmer response:** Upgrade the OS/390 software level so that the minimum LFS VERSION on each system is 1.1.0.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDR

**Routing Code:** 2.

**Descriptor Code:** 4, 8

---

**BPXF052I THE REPRESENTATION FOR SYSTEM *sysname* IS INCONSISTENT. FIX PROCESSING ENDS PREMATURELY.**

**Explanation:** This message is issued as a part of the MODIFY BPXINIT,FILESYS=FIX system command, or a similar shared file system diagnostic function. There is an inconsistency in the representation of the named system. The file system representation does not agree with the XCF representation. The most probable cause of this condition is that a failure occurred during the partition cleanup of the named system.

Partition cleanup occurs when an active system exits the SYSBPX sysplex group, presumably due to a system failure or system restart.

In the message text:

**sysname**

The name of the system that is inconsistent.

**System action:** The analysis and repair of the file system hierarchy ends prematurely. Partition cleanup is initiated for the named system.

**Operator response:** Contact the system programmer.

**System programmer response:** Issue the MODIFY BPXOINIT,FILESYS=DISPLAY,GLOBAL system command to determine if partition cleanup processing is complete. Partition cleanup is complete when there are no systems performing LOCAL FILE SYSTEM RECOVERY or FILE SYSTEM TAKEOVER RECOVERY. When partition cleanup has completed, re-issue the MODIFY BPXOINIT,FILESYS=FIX command to resume and complete file system diagnostic and repair processing.

If the inconsistency persists for the named system, a sysplex restart may be required.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 2

**Descriptor Code:** 4,8

**BPXF053I UNMOUNT PROCESSING FOR FILE SYSTEM *fsname* IS DELAYED. FIX PROCESSING CONTINUES.**

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS=FIX system command. The named file system is being unmounted, and processing appears to be delayed. A previous message indicated which systems did not yet complete the unmount processing.

In the message text:

*fsname*

The name of the file system that is in the process of unmounting.

**System action:** File system analysis and repair continues.

**Operator response:** Issue the D GRS,LATCH,C command on each named system to determine if file system latch contention exists. The file system latch set is SYS.BPX.A000.FSLIT.FILESYS.LSN. If latch contention does exist and persists, the named system should be restarted.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 2

**Descriptor Code:** 4,8

**BPXF054I THE MODIFY FUNCTION CANNOT BE PERFORMED AT THIS TIME.**

**Explanation:** Either another file system diagnostic function is already in progress on this system, or on another system in the sysplex, or a system is in the process of initializing.

**System action:** The MODIFY command is rejected.

**Operator response:** Reissue the MODIFY command after the previous file system diagnostic function completes. If no other diagnostic function is in process, re-issue the command. You may need to issue the command several times before it is accepted.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDR

**Routing Code:** 2

**Descriptor Code:** 4,8

**BPXF055I MODIFY PROCESSING FOR FILESYS=FIX IS COMPLETE. *status* CHECK THE HARD COPY LOG OF EACH SYSTEM FOR CORRECTIVE ACTIONS TAKEN.**

**Explanation:** The MODIFY processing is complete. The message indicates whether or not corrections were made during the MODIFY command processing on this system. Note that corrective actions could have occurred on other systems.

In the message text:

*status*

One of the following:

**NO CORRECTIONS WERE MADE LOCALLY.**

**CORRECTIONS WERE MADE LOCALLY.**

**System action:** The MODIFY command is complete.

**Operator response:** None.

**System programmer response:** Determine if the file system is again operational. If latch contention or delayed file system processing was identified during the file system analysis, pursue resolving identified problems. Any corrections that were made by the FIX function were identified by messages written to the hard copy log. Note that corrections could have occurred on another system asynchronously to this command processing. The hard copy log on each system should always be reviewed to determine if any corrections were performed. Example corrective action messages are BPXF046I and BPXF048I. Contact the IBM Support Center and provide the original dump captured as a part of FIX processing and the hard copy log of each system that identifies the corrections that were performed.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF056I UNMOUNT PROCESSING FOR FILE SYSTEM *fname* IS COMPLETE. FIX PROCESSING CONTINUES.**

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS=FIX system command. Unmount processing for the named file system, and all dependent file systems, is complete.

In the message text:

*fname*

The name of the file system that is in the process of unmounting.

**System action:** File system analysis and repair continues.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF057I POSSIBLE LATCH CONTENTION EXISTS ON SYSTEM *system* FOR FILE SYSTEM *fname*, LATCH NUMBER *latchnum*.**

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS=FIX system command, or a similar shared file system diagnostic function. Latch contention on the named file system exists. The contention may impact any file system operation that references the named file system.

In the message text:

*system*

The name of the system that has latch contention.

*fname*

The name of the file system that has latch contention.

*latchnum*

The latch number in the file system latchset (in decimal).

**System action:** The analysis and repair of the shared file system hierarchy continues.

**Operator response:** Contact the system programmer.

**System programmer response:** Issue the "D GRS,LATCH,C" command on the specified system to review latch contention. File system latches belong to latch set SYS.BPX.A000.FSLIT.FILESYS.LSN. If contention exists and persists, a restart of this system may be required to clear file system delays.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXSTS

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF058I THE FIX FUNCTION IS BEING RESTARTED DUE TO A SERIALIZATION TIMEOUT.**

**Explanation:** This message is issued as a part of the MODIFY BPXOINIT,FILESYS=FIX system command. The FIX analysis is being restarted because serialized access to the active type BPXMCDS couple dataset was lost.

**System action:** The FIX operation restarts.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFIX

**Routing Code:** 2

**Descriptor Code:** 4,8, HARDCOPY ONLY

---

**BPXF059I *type* PROCESSING IS DELAYED. RESPONSES ARE REQUIRED FROM THE FOLLOWING SYSTEMS: *sysnames***

**Explanation:** This message is issued as a part of MODIFY BPXOINIT, FILESYS system command, or a similar shared file system diagnostic function. The named operation appears to be delayed because a message response from the named system was not received.

In the message text:

*type*

One of the following:

**PARTITION RECOVERY**

Partition recovery processing is delayed.

*sysnames*

The names of the systems with an outstanding message response.

**System action:** File system diagnostic analysis continues.

**Operator response:** Issue the D GRS,LATCH,C command on each named system to determine if file system latch contention exists. The file system latch set is SYS.BPX.A000.FSLIT.FILESYS.LSN. If latch contention does exist and persists, the named system should be restarted.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXSTS

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF060I LOGGED BY SYSLOGD FROM A {LOCAL|REMOTE} SOURCE *text* [xxxx BYTES OF INPUT DATA HAS BEEN TRUNCATED]**

**Explanation:** This message was received by a local or remote (z/OS or non-z/OS system) UNIX environment. Remote systems can be any system that allows forwarding syslog daemon (syslogd) messages to remote z/OS hosts. You can see the hostname/IP address of the originating system from the header of the actual syslogd message, which is displayed as *text*.

In the message text:

*text*

The actual syslogd message text which is displayed with 70 characters per line. If the actual message text has more than 48 lines, it is ended by the optional line of xxxx BYTES OF INPUT DATA HAS BEEN TRUNCATED, indicating the remaining text is omitted.

xxxx

The up to 4-digit decimal number that represents the total number of omitted text bytes from the message.

**System action:** The message is logged in OPERLOG.

**Operator response:** If the text contains a message id, refer to the proper documentation for that message to further determine the cause of the message.

**System programmer response:** None.

**Source:** Syslog Daemon (syslogd)

**Detecting Module:** BPXBDOPL

**Routing Code:** -

**Descriptor Code:** -

---

**BPXF062I WAITING FOR THE FOLLOWING SYSTEM(S) TO COMPLETE *activity*: *syslist***

**Explanation:** This message is issued as a part of MODIFY BPXOINIT, FILESYS=FIX,UNMOUNTALL or REINIT command. The message indicates that sysplex-wide mount or unmount activity is in progress for the function, and one or more systems have not yet completed the activity.

In the message text:

*activity*

mounts or unmounts

*syslist*

The specified systems which are still performing the activity.

**System action:** For FIX or REINIT, this message will be displayed for a finite period of time, after which it will timeout. For UNMOUNTALL, it will not timeout, and the MODIFY command will not complete until the identified systems have completed their unmounts. This may require a restart.

**Operator response:** The systems identified may require a system restart. Issue the D GRS,LATCH,C command on the specified system to review latch contention. File system latches belong to latch set SYS.BPX.A000.FSLIT.FILESYS.LSN. If contention exists and persists, a restart of this system may be required.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDR

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF063I FILE SYSTEM *name* WAS SUCCESSFULLY UNMOUNTED.**

**Explanation:** This message is issued when a file system has been force unmounted due to UNMOUNT, UNMOUNTALL or FIX functions of the MODIFY BPXOINIT, FILESYS= command or other interface.

In the message text:

*name*

The file system name.

**System action:** The file system was unmounted. The function continues.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFTCLN

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF064I MODIFY BPXOINIT,FILESYS=REINIT TIMED OUT BEFORE ALL SYSTEMS COMPLETED.**

**Explanation:** MODIFY BPXOINIT,FILESYS=REINIT waits for all systems to complete their PARMLIB mounts. If too much time passes, it will issue this message and terminate.

**System action:** The MODIFY command terminates.

**Operator response:** None.

**System programmer response:** Issue the D OMVS,F command to see which file systems have been mounted.

## BPXF065I • BPXF076I

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDR

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF065I THE FILESYSTEM CANNOT BE UNMOUNTED BECAUSE IT CONTAINS MOUNTPOINTS FOR OTHER FILESYSTEMS. THOSE FILESYSTEMS MUST BE UNMOUNTED FIRST.**

**Explanation:** This message is issued when the file system specified on the MODIFY BPXOINIT,FILESYS=UNMOUNT command cannot be unmounted due to other file systems mounted under it.

**System action:** The MODIFY command is rejected.

**Operator response:** None.

**System programmer response:** Issue the D OMVS,F command to see which file systems are mounted under the specified file system, which will need to be unmounted first.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDR

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF066I MODIFY COMMAND PROCESSING TIMED OUT.**

**Explanation:** The MODIFY BPXOINIT,FILESYS= requires that no mutually exclusive activity is in progress in order to proceed. Such activity includes unmount, move, and recovery.

**System action:** The MODIFY command terminates.

**Operator response:** None.

**System programmer response:** Issue the MODIFY BPXOINIT,FILESYS=DISPLAY to display current system status.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDR

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXF067I AN SVC DUMP OF FILE SYSTEM RESOURCES ENDED WITH REASON CODE = *sdumpx\_rsn\_code***

**Explanation:** This message was issued in response to the MODIFY (F) BPXOINIT FILESYS command with the FIX or DUMP parameter. SDUMPX processing has failed with a return code of 8. In the message text:

**REASON CODE = *sdumpx\_rsn\_code***

For the explanation of the SDUMPX reason code, see *z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU*.

**System action:** Processing ends for the DUMP option, but continues for the FIX option.

**Operator response:** None

**System programmer response:** None

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDR

**Routing Code:** 2

**Descriptor Code:** 4,8

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**BPXF075I PFS RECOVERY COULD NOT COMPLETE FOR PROCESS *pid* PFSES WHICH MAY HAVE LOST RESOURCES INCLUDE: *pfsname***

**Explanation:** The PFS (Physical File System) could not complete its recovery for a call in progress during user address space end of memory and the results may be unpredictable. Resources or locks may be lost and the PFS may have to be recycled if other users begin to hang up while using it.

In the message text:

*pid* The process ID, in decimal, of the process containing the terminating thread.

*pfsname*

The name of up to 3 PFSEs associated with the tasks hung in EOM.

**System action:** ABEND EC6 Reason RRETIME is issued.

**Operator response:** None.

**Application Programmer Response:** None.

**System programmer response:** Recycle the PFSEs.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXRRECT

**Routing Code:** 10

**Descriptor Code:** 4

---

**BPXF076I FILE SYSTEM INITIALIZATION IS DELAYED DUE TO CONFLICTING ACTIVITY ON ANOTHER SYSTEM.**

**Explanation:** This message is issued when file system initialization enters a delay because a conflicting function that is being performed by another system is in progress.

**System action:** Initialization will delay indefinitely until the conflicting activity completes. The F BPXOINIT,FILESYS=DISPLAY,GLOBAL system

| command is internally issued.

**Operator response:** Contact the system programmer.

| **System programmer response:** Message BPXF041I is issued subsequent to this message.

Review the active file system activity in the sysplex. If the conflicting activity persists, it might indicate a latch deadlock or a problem updating the mount table. Issue the D GRS,LATCH,C command to review latch contention on the other systems in the sysplex. If a latch deadlock exists, or if file system initialization continues to be delayed, then you may need to restart the violating system to clear the conflicting activity.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXRMT

**Routing Code:** 1

**Descriptor Code:** 2

**BPXF077S SYSTEM sysname WAS PARTITIONED OUT OF THE SYSPLEX BECAUSE THE SOFTWARE SERVICE LEVEL IS INCOMPATIBLE WITH THIS SYSTEM.**

**Explanation:** The system has detected that the named system is configured for shared file system support and is initializing at a software service level that is incompatible with the software service level of this system.

In the message text:

*sysname*

The name of the system being partitioned out.

**System action:** The specified system is partitioned out of the sysplex. The wait code is EC7 and the reason code is 002. Processing on this system continues.

**Operator response:** Contact the system programmer.

**System programmer response:** Review *z/OS and z/OS.e Planning for Installation* for the list of z/OS UNIX System Services coexistence and fallback PTFs that must be applied for this release level.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXUTL

**Routing Code:** 2,10

**Descriptor Code:** 12

**BPXF078W THIS SYSTEM CANNOT EXECUTE IN THE ACTIVE SHARED FILE SYSTEM CONFIGURATION. THE SOFTWARE SERVICE LEVEL OF SYSTEM *sysname* IS INCOMPATIBLE WITH THIS SYSTEM.**

**Explanation:** *sysname* is the name of the system that is configured for shared file system support and is executing at a software service level that is incompatible

with the software service level of this system. This system cannot complete shared file system initialization.

**System action:** The system enters a non-recoverable wait state with a wait code of EC7 and a reason code of 001.

**Operator response:** Contact the system programmer.

**System programmer response:** Review *z/OS and z/OS.e Planning for Installation* for the list of z/OS UNIX System Services coexistence and fallback PTFs that must be applied on each system that is configured with shared file system support. Note that this message only identifies the first incompatible system in the shared file system configuration; other systems at an incompatible software service level may also exist. The software service level of all systems configured for shared file system should be reviewed and the appropriate service level applied.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXRMT

**Routing Code:** 2,10

**Descriptor Code:** 1

**BPXF079S UNIX SYSTEM SERVICES CANNOT EXECUTE IN THE ACTIVE SHARED FILE SYSTEM CONFIGURATION. THE SOFTWARE SERVICE LEVEL OF ONE OR MORE SYSTEMS IS INCOMPATIBLE WITH THIS SYSTEM.**

**Explanation:** z/OS UNIX is configured with shared file system support and cannot initialize due to a software service incompatibility between this system and another active system in the shared file system configuration.

**System action:** Message BPXF080I is issued and contains the names of the systems with the incompatible software service level.

z/OS UNIX processing on this system will shutdown.

**Operator response:** Contact the system programmer.

**System programmer response:** Locate message BPXF080I for a list of the systems with the incompatible software service level. Review *z/OS and z/OS.e Planning for Installation*, GA22-7504, for the list of z/OS UNIX coexistence and fallback PTFs that must be applied on each system that is configured with shared file system support.

Once the correct software service is applied then z/OS UNIX on this system can be restarted using the MODIFY OMVS,RESTART system command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXRMT

**Routing Code:** 1,10

**Descriptor Code:** 1

---

**BPXF080I THE SOFTWARE SERVICE LEVEL OF THE FOLLOWING SYSTEMS ARE INCOMPATIBLE WITH THIS SYSTEM: sysname sysname sysname sysname**

**Explanation:** This message is issued in conjunction with message BPXF079S. The systems listed here are configured for z/OS UNIX shared file system support and are executing at a software service level that is incompatible with the software service level of this system.

In the message text:

*sysname*

The names of the systems with the incompatible software service level.

**System action:** See message BPXF079S.

**Operator response:** Contact the system programmer.

**System programmer response:** Review *z/OS and z/OS.e Planning for Installation*, GA22-7504, for the list of z/OS UNIX coexistence and fallback PTFs that must be applied on each system that is configured with shared file system support.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXRMT

**Routing Code:** 2,10

**Descriptor Code:** 12

---

**BPXF101E RETURN CODE *return\_code* RECEIVED DURING PARSING OF THE COMMAND.**

**Explanation:** An error occurred during the parse of the command.

In the message text:

*return\_code*

The value of the return code received from IKJPARS. For an explanation of the return code, see the appropriate section for the failing service in *z/OS TSO/E Programming Services*.

**System action:** Processing for the command ends.

**User response:** Refer to the actions suggested by the parser for the return code received. Correct the syntax of the command and reenter it.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** -

**Descriptor Code:** 5

---

**BPXF102E MVS PDS OR PDSE WITH DDNAME *ddname* WAS SPECIFIED FOR EITHER INPUT OR OUTPUT. A MEMBER NAME IS REQUIRED.**

**Explanation:** When either a PDS or a PDSE is specified, a member name must also be entered.

In the message text:

*ddname*

The data definition name of the PDS or PDSE that was specified on the command.

**System action:** Processing for the command ends.

**User response:** Reenter the command, after specifying a ddname for a PDS or PDSE with a member name.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXF103E RETURN CODE *return\_code* WAS RECEIVED DURING AN ATTEMPT TO OBTAIN STORAGE FOR A BUFFER.**

**Explanation:** During processing of the command, a request was made for storage. The request failed for the reason identified by the return code.

In the message text:

*return\_code*

The return code received when storage was requested. For an explanation of the return code, see the description of the Storage macro in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

**System action:** Processing for the command ends.

**User response:** If the problem persists, increase your region size.

**Operator response:** None.

**System programmer response:** If the problem persists, increase the user's region size.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUO2O

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXF104E AN ERROR OCCURRED DURING THE OPENING OF AN MVS DATA SET WITH DDNAME *ddname*.**

**Explanation:** The MVS data set is not opened. This may happen when:

- The member name specified for input doesn't exist.
- The DCB attributes (for example, lrecl, recfm, blksize) are incorrect and thus the data set cannot be opened.
- The data set is neither a sequential data set nor a member of a partitioned sequential data set (that is, a PDS or PDSE).

In the message text:

*ddname*

The data definition name specified for either the INDD or OUTDD operand.

**System action:** Processing for the command ends.

**User response:** Determine the cause and correct the error. If the error was caused by the attributes being incorrect, reallocate the data set with the correct attributes. Then reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXF105E RETURN CODE *return\_code*, REASON CODE *reason\_code*. AN ERROR OCCURRED DURING THE OPENING OF HFS FILE *pathname*.**

**Explanation:** The system was unable to open the HFS file because of the condition indicated by the return code and reason code shown.

In the message text:

*return\_code*

The return code received from the open request.

*reason\_code*

The reason code received from the open request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*pathname*

The path name of the HFS file.

**System action:** Processing for the command ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem with the open request. Correct the error,

and then reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUO2O

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF106E RETURN CODE *return\_code*, REASON CODE *reason\_code*. AN ERROR OCCURRED DURING THE WRITING TO HFS FILE *pathname*.**

**Explanation:** The system was unable to write to the HFS file because of the condition indicated by the return code and reason code shown.

In the message text:

*return\_code*

The return code received from the write request.

*reason\_code*

The reason code returned from the write request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*pathname*

The path name of the HFS file.

**System action:** Processing for the command ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem with the write request. Correct the error, and then reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUO2O

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF107E THE RECORD FORMAT OF THE INPUT DATA SET WITH DDNAME *ddname* IS NOT VALID.**

**Explanation:** The only record formats that are valid are F (fixed), V (variable), and U (undefined).

This condition can occur when a U format data set is specified as the receiver of a copy of a text HFS file. This is not supported.

In the message text:

## BPXF108E • BPXF112W

### *ddname*

The data definition name specified on the command.

**System action:** Processing for the command ends.

**User response:** Check the record format of the data set, and correct it before entering the command again.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 5

---

### BPXF108E THE RECORD FORMAT OF THE OUTPUT DATA SET WITH DDNAME *ddname* IS NOT VALID.

**Explanation:** The only record formats that are valid are F (fixed), V (variable), and U (undefined).

Sometimes the user may not specify the record format in the data set. For example, when the user allocates the terminal as output, he must specify the record format as something instead of just empty.

The other time that this condition can occur when a U format data set is specified as the receiver of a copy of a text HFS file. This is not supported.

In the message text:

### *ddname*

The data definition name specified on the command.

**System action:** Processing for the command ends.

**User response:** Check the record format of the data set, and correct it before entering the command again.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 5

---

### BPXF110E RETURN CODE *return\_code*, REASON CODE *reason\_code*. AN ERROR OCCURRED WHILE READING FROM HFS FILE *pathname*.

**Explanation:** The system was unable to read from the HFS file because of the condition indicated by the return code and reason code shown.

In the message text:

### *return\_code*

The return code returned from the read request.

### *reason\_code*

The reason code returned from the read request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

### *pathname*

The name of the HFS file.

**System action:** Processing for the command ends.

**User response:** Correct the problem as identified by the return code and reason code. Then reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUO2O

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXF111E COPY FAILED. RETURN CODE *return\_code* WAS RECEIVED DURING THE COPY.

**Explanation:** The copy operation failed for the reason described by the return code.

In the message text:

### *return\_code*

The return code received during the copying operation. For an explanation of the return code, see *z/OS MVS System Codes*.

**System action:** Processing for the command ends.

**User response:** Correct the problem and reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXF112W THE RECORD SIZE IN THE OUTPUT DATA SET IS SMALLER THAN A LINE IN THE INPUT FILE. SOME RECORDS HAVE BEEN TRUNCATED.

**Explanation:** The record size of the output data set is smaller than the size of a line in the input HFS file. This caused records to be truncated. A line is delimited by a '\n' new line character in the input file.

**System action:** Processing of the command continues, truncating records when required.

**User response:** Should the result of the copy be unsatisfactory, create an output data set with a larger record size and reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

**BPXF113W THE LOAD MODULE COPIED IS NOT A PROGRAM OBJECT AND MAY NOT BE EXECUTABLE.**

**Explanation:** In order for a load module to execute it must be a program object.

**System action:** Processing of the command continues, but the output may not be usable.

**User response:** None. This is just a warning message to make sure that the user is aware that the load module may not be executable.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

**BPXF114E REASON CODE *reason\_code* RECEIVED WHILE ATTEMPTING TO LOAD CONVERSION TABLE *tabname*.**

**Explanation:** An error occurred during the load of the conversion table.

In the message text:

*reason\_code*

The value of the reason code received from the load request. For an explanation of the return code, see the description of the Load macro in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

*tabname*

The name of the conversion table to be loaded.

**System action:** Processing for the command ends.

**User response:** Check the name of the conversion table and make sure that the conversion table exists in the system.

**Operator response:** None.

**System programmer response:** Find and correct the problem that caused the error; then inform the user that he or she can reenter the command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** -

**Descriptor Code:** 5

**BPXF115E AN ERROR OCCURRED DURING THE OPENING OF LIBRARY DATA SET *name* FOR THE CONVERT FUNCTION.**

**Explanation:** The MVS data set is not opened. This may happen when:

- The member name specified for input doesn't exist.
- The DCB attributes (for example, lrecl, recfm, blksize) are incorrect and thus the data set cannot be opened.
- The data set is a VSAM data set.

In the message text:

*name*

The name of the library data set.

**System action:** Processing for the command ends.

**User response:** Specify an acceptable data set containing the conversion table. Usually, this is a PDS(E) with a format of U.

**Operator response:** None.

**System programmer response:** Find and correct the problem that caused the error; then inform the user so that he or she can reenter the command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 5

**BPXF116E RETURN CODE *return\_code* RECEIVED DURING THE SET UP OF THE RECOVERY ENVIRONMENT.**

**Explanation:** An error occurred during the set up of the recovery environment.

In the message text:

*return\_code*

The value of the return code received while setting up the recovery environment. For an explanation of the return code, see the description of the ESTAEX macro in *z/OS MVS Programming: Assembler Services Reference ABE-HSP*.

**System action:** Processing for the command ends.

## BPXF117E • BPXF121E

**User response:** Refer to the actions suggested for the return code received.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** -

**Descriptor Code:** 5

---

### BPXF117E THE LENGTH OF THE CONVERSION TABLE IS TOO SHORT.

**Explanation:** The length specified for the length of the conversion table is not large enough. The minimum length of the conversion table is 512 bytes.

**System action:** Processing for the command ends.

**User response:** Verify that the proper conversion table was specified. If the problem persists, refer this problem to the system programmer.

**Operator response:** None.

**System programmer response:** Find and correct the problem that caused the error; then inform the user so that he or she can reenter the command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXF118W NO DATA CONVERSION IS PERFORMED. EITHER THE TO1047 OR THE FROM1047 KEYWORD IS REQUIRED FOR THIS CONVERT OPERATION.

**Explanation:** The command does not process unless either the TO1037 or the FROM1047 keyword is specified.

**System action:** The copy continues, but no data conversion was done.

**User response:** If conversion is desired, reenter the command with the proper keyword.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXF119W THE RECORD SIZE IN THE OUTPUT DATA SET IS SMALLER THAN THAT OF THE INPUT DATA SET. SOME RECORDS HAVE BEEN TRUNCATED.

**Explanation:** The record size of the output data set is smaller than that of the input data set. This caused records to be truncated.

**System action:** Processing of the command continues, truncating records.

**User response:** If the result of the copy is unsatisfactory, create an output data set with a larger record size and reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXF120E AN ERROR OCCURRED DURING THE OPENING OF MVS DATA SET *dsname*.

**Explanation:** The MVS data set is not opened. For some possible reasons for this, see message BPXF104E.

In the message text:

*dsname*

The data set name specified on the command.

**System action:** Processing for the command ends.

**User response:** Determine the cause and correct the error. If the error was caused by the attributes being incorrect, reallocate the data set with the correct attributes. Then reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUPTC

**Routing Code:** 2

**Descriptor Code:** 5

---

### BPXF121E THE RECORD FORMAT OF DATA SET *dsname* IS INCORRECT.

**Explanation:** For an explanation of some of the reasons for this, see message BPXF107E.

In the message text:

*dsname*

The data definition name specified on the command.

**System action:** Processing for the command ends.

**User response:** Check the record format of the data set, and correct it before entering the command again.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUPTC

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXF123E AN HFS FILE CANNOT BE COPIED TO ITSELF.**

**Explanation:** The same HFS file was specified via INDD and OUTDD. Since the copy operation would destroy the file, the command was rejected.

**System action:** Processing for the command ends.

**User response:** Specify a different HFS file for either INDD or OUTDD when reentering the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF124E THE DATA SET NAME IS MISSING.**

**Explanation:** A data set name must be specified on the command.

**System action:** Processing for the command ends.

**User response:** Reenter the command, this time specifying a data set name.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUGTC

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF125E EITHER THE PATHNAME IS MISSING, OR QUOTES ARE MISSING AROUND IT.**

**Explanation:** A path name must be specified on the command, and it must be specified in quotes.

**System action:** Processing for the command ends.

**User response:** Reenter the command, this time specifying a proper path name.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUGTC

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF126E MVS PDS OR PDSE *name* WAS SPECIFIED AS THE INPUT DATA SET. A MEMBER NAME IS REQUIRED.**

**Explanation:** When either a PDS or a PDSE is specified, a member name must also be entered.

In the message text:

*name*

The name of a PDS or PDSE that was specified on the command.

**System action:** Processing for the command ends.

**User response:** Reenter the command, this time specifying a member name.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUPTC

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXF127E AN ERROR OCCURRED DURING THE OPENING OF MEMBER *memname* IN MVS DATA SET *dsname*.**

**Explanation:** The MVS data set is not opened. Any of the following could be the reason for this:

- The member does not exist in the input PDS.
- The input data set is a sequential data set but the specified member name or the DCB information (for example, record size or buffer size) is incorrect.
- The data set is not a PDS(E). This could mean that it is a VSAM data set.

In the message text:

*memname*

The member name.

*dsname*

The data set name specified.

**System action:** Processing for the command ends.

**User response:** Determine the cause of the problem,

## BPXF128E • BPXF132E

correct it, and reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUEST

**Routing Code:** 2

**Descriptor Code:** 5

---

### BPXF128E AN ERROR OCCURRED DURING THE OPENING OF AN MVS DATA SET.

**Explanation:** The MVS data set is not opened. Some of the reasons for this are:

- The DCB information is incorrect.
- The data set is not a sequential data set.

**System action:** Processing for the command ends.

**User response:** Determine the cause of the problem, correct it, and reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUEST

**Routing Code:** 2

**Descriptor Code:** 5

---

### BPXF129E MVS PDS OR PDSE *name* WAS SPECIFIED AS THE OUTPUT FILE. A MEMBER NAME IS REQUIRED.

**Explanation:** When either a PDS or a PDSE is specified, a member name must also be entered.

In the message text:

*name*

The name of a PDS or PDSE that was specified on the command.

**System action:** Processing for the command ends.

**User response:** Reenter the command, this time specifying a member name.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUGTC

**Routing Code:** 2

**Descriptor Code:** 5

---

### BPXF130E A PARTITIONED DATA SET MUST EXIST PRIOR TO COPYING. A NEW PARTITIONED DATA SET IS NOT DYNAMICALLY ALLOCATED.

**Explanation:** The OGET command does not create an output PDS(E). It must be preallocated.

**System action:** Processing for the command ends.

**User response:** Reenter the command after allocating a PDS(E).

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUGTC

**Routing Code:** 2

**Descriptor Code:** 5

---

### BPXF131E AN HFS DATA SET IS NOT SUPPORTED FOR EITHER THE SOURCE OR THE TARGET.

**Explanation:** Either the source or the target specified an HFS data set instead of a PDS(E).

**System action:** Processing for the command ends.

**User response:** Reenter the command, specifying an acceptable data set.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 5

---

### BPXF132E THERE IS A RECORD FORMAT ERROR FOR MVS DATA SET *name*. EITHER THE OUTPUT RECORD FORMAT IS UNDEFINED FOR A TEXT INPUT FILE, OR THE OUTPUT RECORD FORMAT IS NOT VALID.

**Explanation:** The only record formats that are valid are F (fixed), V (variable), and U (undefined).

This condition can occur when a U format data set is specified as the receiver of a copy of a text HFS file. This is not supported.

In the message text:

*name*

The name of a PDS or PDSE that was specified on the command.

**System action:** Processing for the command ends.

**User response:** Reenter the command, specifying an acceptable data set.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUGTC

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXF134E RETURN CODE *return\_code*, REASON CODE *reason\_code*. AN ERROR OCCURRED DURING THE CREATION OF DIRECTORY *pathname*.**

---

**Explanation:** The system was unable to create the directory because of the condition indicated by the return code and reason code shown.

In the message text:

*return\_code*

The return code received from the create request.

*reason\_code*

The reason code received from the create request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*pathname*

The path name of the directory of HFS file.

**System action:** Processing for the command ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem. Correct the error, and then reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUMKD

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF135E RETURN CODE *return\_code*, REASON CODE *reason\_code*. THE MOUNT FAILED FOR FILE SYSTEM *fsname*.**

---

**Explanation:** The system was unable to mount the file system because of the condition indicated by the return code and reason code shown.

In the message text:

*return\_code*

The return code received from a callable service.

*reason\_code*

The reason code received from a callable service. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*fsname*

The name of the file system to be mounted.

**System action:** Processing for the command ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem. Correct the error, and then reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUMNT

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF136E A MEMBER NAME MUST NOT BE SPECIFIED FOR A FILE SYSTEM.**

---

**Explanation:** When an HFS data set is specified on mount, it must not include a member name.

**System action:** Processing for the command ends.

**User response:** Reenter the command without specifying a member name.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUMNT

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXF137E RETURN CODE *return\_code*, REASON CODE *reason\_code*. THE UNMOUNT FAILED FOR FILE SYSTEM *fsname*.**

---

**Explanation:** The system was unable to unmount the file system because of the condition indicated by the return code and reason code shown.

In the message text:

*return\_code*

The return code received from the unmount request.

*reason\_code*

The reason code received from the unmount request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

## BPXF138E • BPXF141E

*fsname*

The name of the file system to be unmounted.

**System action:** Processing for the command ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem. Correct the error, and then reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUUMT

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF138E RETURN CODE** *return\_code*, **REASON CODE** *reason\_code*. **AN ERROR OCCURRED CREATING FILE** *pathname*.

**Explanation:** The system was unable to create the file because of the condition indicated by the return code and reason code shown.

In the message text:

*return\_code*

The return code received from the mknod request.

*reason\_code*

The reason code received from the mknod request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*pathname*

The name of the file to be created.

**System action:** Processing for the command ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem. Correct the error, and then reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUMKN

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF139E COPYING OF A LOAD MODULE BETWEEN A PDS AND A PDSE IS NOT SUPPORTED.**

**Explanation:** Copying a load module between a PDS and a PDSE must invoke the binder to convert the load module from nonlinear format to a program object or

vice versa. OCOPY will not invoke the binder.

**System action:** Processing for the command ends.

**User response:** If the intent was to copy a load module, use IEBCOPY or the binder to perform the copy. Otherwise, specify the correct data set name and reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF140E RETURN CODE** *return\_code*, **REASON CODE** *reason\_code*. **A LINK FAILED FOR LINK NAME** *linkname*.

**Explanation:** The BPXCOPY utility was unable to create a link (that is, alias) for the specified name.

In the message text:

*return\_code*

The return code received from the link request.

*reason\_code*

The reason code received from the link request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*linkname*

The link name of the HFS file.

**System action:** Processing for the request ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem with the link request. Correct the error, and then reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF141E COPYING FROM A DATA SET TO ANOTHER DATA SET IS NOT SUPPORTED.**

**Explanation:** The BPXCOPY utility does not support copying from one data set to another data set.

**System action:** Processing for the request ends.

**User response:** Correct the error and reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

**BPXF142E COPY FROM AN HFS FILE TO ANOTHER HFS FILE IS NOT SUPPORTED.**

**Explanation:** The BPXCOPY utility does not support copying from one HFS file to another HFS file.

**System action:** Processing for the request ends.

**User response:** Correct the error and reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

**BPXF143E COPY FROM AN HFS FILE TO A DATA SET IS NOT SUPPORTED.**

**Explanation:** The BPXCOPY utility does not support copying from an HFS file to a data set.

**System action:** Processing for the request ends.

**User response:** Correct the error and reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

**BPXF145E AN ELEMENT NAME IS REQUIRED INPUT TO BPXCOPY.**

**Explanation:** An element name is a required keyword for the BPXCOPY utility.

**System action:** Processing for the request ends.

**User response:** Correct the error and reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

**BPXF146E AN INPUT FILE CONTAINING NULL LINES CANNOT BE COPIED TO A VBA OR VBM DATA SET.**

**Explanation:** The input file contains a null line, which does not contain any data. The output data set contains variable length records with ASA or machine control characters. A minimum length of 1 byte of input data is required to create a record in this output data set.

**System action:** Processing for the command ends.

**User response:** If an output data set containing variable blocked (VB) records is desired, create it without machine control characters. (Do not specify VBA or VBM.) After correcting the problem, reenter the command, specifying that data set as the target.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

**BPXF147E READ-ONLY IS SPECIFIED IN THE PATHOPTS FOR THE OUTPUT FILE. USE PATHOPTS(OVERRIDE) TO OVERRIDE THE PATHOPTS IF DESIRED.**

**Explanation:** The access group option of the PATHOPTS operand of the ALLOCATE command is inconsistent for the output file.

**System action:** Processing for the command ends.

**User response:** Either reissue the ALLOCATE command specifying an appropriate PATHOPTS keyword and then reenter this command, or reenter this command with the PATHOPTS(OVERRIDE) keyword.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF148E WRITE-ONLY IS SPECIFIED IN THE PATHOPTS FOR THE INPUT FILE. USE PATHOPTS(OVERRIDE) TO OVERRIDE THE PATHOPTS IF DESIRED.**

**Explanation:** The access group option of the PATHOPTS operand of the ALLOCATE command is inconsistent for the input file.

**System action:** Processing for the command ends.

**User response:** Either reissue the ALLOCATE command specifying an appropriate PATHOPTS keyword and then reenter this command, or reenter this command with the PATHOPTS(OVERRIDE) keyword.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF150I MVS DATA SET WITH DDNAME *ddname* SUCCESSFULLY COPIED INTO type *HFS FILE pathname*.**

**Explanation:** This is a success message. Processing completed successfully.

In the message text:

*ddname*

The data definition name specified for input.

*type*

The type of the file - either BINARY or TEXT.

*pathname*

The name of the HFS file.

**System action:** Processing continues.

**User response:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXF151I BPXCOPY WAS INVOKED FOR HEAD ID *headid*.**

**Explanation:** This is an informational message to identify that this is the start of the message section for an invocation of BPXCOPY.

In the message text:

*headid*

The heading identifier supplied.

**System action:** Processing continues.

**User response:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXF152W THE INPUT FILE SPECIFIED IS A DIRECTORY.**

**Explanation:** The input file specified is a directory file instead of a regular file.

**System action:** Processing of the command continues; directory data is copied, if any.

**User response:** Make sure that you intended to copy a directory.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF153W NO DATA HAS BEEN COPIED. THE INPUT FILE CONTAINS ZERO BYTES OF DATA.**

**Explanation:** The input file contains zero bytes of data.

**System action:** Processing of the command continues; no data is copied.

**User response:** If an incorrect name was specified, reenter the command with the correct file name.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF154E DATA SET OF VARIABLE SPANNED RECORD FORMAT IS NOT SUPPORTED.**

**Explanation:** Data set with variable spanned record is not allowed.

**System action:** Processing for the command ends.

**User response:** Reenter the command, specifying an acceptable data set.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPC

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF155E PATHMODE SPECIFIED HAS INCORRECT VALUES.**

**Explanation:** Pathmode has incorrect values. Must be from 0 to 7 OR Correct number of pathmode values not specified. Must have 4 values.

**System action:** Processing for the request ends.

**User response:** Reenter the request, specifying an acceptable pathmode.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF156E RETURN CODE *return\_code*, REASON CODE *reason\_code*. PATHMODE COULD NOT BE SET FOR FILE *pathname*.**

**Explanation:** The system was unable to change the mode of the file because of the condition indicated by the return code and reason code shown.

In the message text:

*return\_code*

The return code received from chmod.

*reason\_code*

The reason code received from chmod. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*pathname*

The name of the file.

**System action:** Processing for the request ends.

**User response:** Verify that you have authority to set pathmode and reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF157E RETURN CODE *return\_code* RECEIVED DURING STACKING OF THE MESSAGE OUTPUT DATA SET WITH DDNAME *ddname*.**

**Explanation:** An error occurred during the STACK of the message output ddname.

In the message text:

*return\_code*

The return code received from IKJSTCK. For an explanation of the return code, see the appropriate section for the failing service in *z/OS TSO/E Programming Services*.

*ddname*

The data definition name specified for the message output.

**System action:** Processing for BPXCOPY ends, without copying.

**User response:** Verify that the specified message output ddname is allocated. Correct the problem as identified by the return code and reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF158E RETURN CODE *return\_code* RECEIVED DURING THE STACK DELETE OF THE MESSAGE OUTPUT DATA SET ELEMENT FOR DDNAME *ddname*.**

**Explanation:** An error occurred during the STACK DELETE of the message output ddname element.

In the message text:

*return\_code*

The return code received from IKJSTCK. For an

## BPXF159E • BPXF162E

explanation of the return code, see the appropriate section for the failing service in *z/OS TSO/E Programming Services*.

*ddname*

The data definition name specified for the message output.

**System action:** Processing for BPXCOPY ends. The copy may or may not have been done. The message output data set may not be closed.

**User response:** Correct the problem as identified by the return code from IKJSTCK and reenter the request. If the problem persists, refer this problem to the system programmer.

**Operator response:** None.

**System programmer response:** Find and correct the problem that caused the error; then inform the user so that he or she can reenter the command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF159E** *cmdname* ABENDED. SYSTEM COMPLETION CODE *syscompcode*.

**Explanation:** The command abended for the reason described by the system completion code.

In the message text:

*cmdname*

The command that was running.

*syscompcode*

The system completion code. For an explanation of the code, see *z/OS MVS System Codes*.

**System action:** Processing for the command ends.

**User response:** Determine the cause of the problem, correct it, and reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUEST

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXF160E** RETURN CODE *return\_code*, REASON CODE *reason\_code*, OBTAINING STATUS OF THE MOUNT POINT.

**Explanation:** The system was unable to obtain the status of the mount point because of the condition indicated by the return code and reason code shown.

In the message text:

*return\_code*

The return code received from the stat request.

*reason\_code*

The reason code received from the stat request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** Processing for the command ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem. Correct the error, and then reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUMNT

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF161I** ASYNCHRONOUS MOUNT IS IN PROGRESS FOR FILE SYSTEM *fsname*.

**Explanation:** The file system is being mounted asynchronously.

In the message text:

*fsname*

The name of the file system to be mounted.

**System action:** Processing for the command continues.

**User response:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUMNT

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF162E** ASYNCHRONOUS MOUNT FAILED FOR FILE SYSTEM *fsname*.

**Explanation:** The system was unable to mount the file system because of an asynchronous failure. Because the mount was processed asynchronously, no detailed return information on the failure is available.

In the message text:

*fsname*

The name of the file system to be mounted.

**System action:** Processing for the command ends.

**User response:** Reenter the command.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUMNT

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF163E USER NAME *username* IS NOT DEFINED.**

**Explanation:** UID(username) is not defined in the security data base.

In the message text:

*username*  
The userID.

**System action:** Processing for the request ends.

**User response:** Reenter the request, specifying a defined username or UID.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF164E UID *uid* IS NOT DEFINED.**

**Explanation:** UID(uid) is not defined in the security data base.

In the message text:

*uid* The UID.

**System action:** Processing for the request ends.

**User response:** Reenter the request, specifying a defined username or UID.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF165E GROUP NAME *groupname* IS NOT DEFINED.**

**Explanation:** GID(groupname) is not defined in the security data base.

In the message text:

*groupname*  
The group name.

**System action:** Processing for the request ends.

**User response:** Reenter the request, specifying a defined group name or GID.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF166E GID *gid* IS NOT DEFINED.**

**Explanation:** GID(gid) is not defined in the security data base.

In the message text:

*gid* The groupID.

**System action:** Processing for the request ends.

**User response:** Reenter the request, specifying a defined group name or GID.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF167E RETURN CODE *return\_code*, REASONCODE *reason\_code*, UID and GID COULD NOT BE SET FOR FILE *pathname*.**

**Explanation:** The system was unable to change the owner and/or the group owner of the file because of the condition indicated by the return code and reason code shown.

In the message text:

*return\_code*  
The return code received from chattr.

*reason\_code*

The reason code received from chattr. For an

## BPXF168E • BPXF171E

explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*pathname*

The name of the file.

**System action:** Processing for the request ends.

**User response:** Correct the condition indicated by the return code and reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF168E RETURN CODE** *return\_code*,  
**REASONCODE** *reason\_code*, **UID** and  
**GID COULD NOT BE SET FOR**  
**SYMLINK** *pathname*.

**Explanation:** The system was unable to change the owner and/or the group owner of the symlink because of the condition indicated by the return code and reason code shown.

In the message text:

*return\_code*

The return code received from lchown.

*reason\_code*

The reason code received from lchown. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*pathname*

The name of the symbolic link.

**System action:** Processing for the request ends.

**User response:** Correct the condition indicated by the return code and reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF169E SYMPATH VALUE IS MISSING FOR**  
**SYMLINK** *pathname*.

**Explanation:** Either SYMPATH was not specified OR

no SYMPATH path name was specified for the SYMLINK pathname.

In the message text:

*pathname*

The path name of the symbolic link.

**System action:** Processing for the request ends.

**User response:** Reenter the request, specifying at least one SYMPATH path name.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF170E RETURN CODE** *return\_code*, **REASON CODE** *reason\_code*. **A SYMLINK FAILED FOR LINK NAME** *linkname*.

**Explanation:** The BPXCOPY utility was unable to create a symbolic link with the specified name.

In the message text:

*return\_code*

The return code received from the symlink request.

*reason\_code*

The reason code received from the symlink request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*linkname*

The name of the symlink.

**System action:** Processing for the request ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem with the symlink request. Correct the error, and then reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXF171E RETURN CODE** *return\_code*, **REASON CODE** *reason\_code*. **CANNOT REPLACE EXISTING SYMLINK** *linkname*.

**Explanation:** The BPXCOPY utility was unable to create a symbolic link with the specified name. The

name exists, but is different than the requested symbolic link, or not readable.

In the message text:

*return\_code*

The return code received from the readlink request.

*reason\_code*

The reason code received from the readlink request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*linkname*

The name of the symlink.

**System action:** Processing for the request ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem with the readlink request. Correct the error, and then reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

**BPXF172E CANNOT REPLACE EXISTING SYMLINK *linkname*.**

**Explanation:** The BPXCOPY utility was unable to create a symbolic link with the specified name. The name exists as a symlink, but the path name in the existing symbolic link is different from the path name requested.

In the message text:

*linkname*

The name of the symlink.

**System action:** Processing for the request ends.

**User response:** Remove the existing symbolic link, or specify a different SYMLINK *linkname*, and reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

**BPXF173E RETURN CODE *return\_code*, REASON CODE *reason\_code*, attr ATTRIBUTE CANNOT BE SET FOR FILE *pathname*.**

**Explanation:** The BPXCOPY utility was unable to set the indicated attribute on the HFS file.

In the message text:

*return\_code*

The return code received from the chattr request.

*reason\_code*

The reason code received from the chattr request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*attr*

The attribute requested. One of the following: APF, NOAPF, PROGCTL, NOPROGCTL, SHAREAS, NOSHAREAS.

*pathname*

The path name of the HFS file.

**System action:** Processing for the request ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem with the chattr request. Correct the error, and then reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

**BPXF174E RETURN CODE *return\_code*, REASON CODE *reason\_code*, OBTAINING STATUS OF FILE *pathname*.**

**Explanation:** The system was unable to obtain the status of the file because of the condition indicated by the return code and the reason code shown.

In the message text:

*return\_code*

The return code received from the stat request.

*reason\_code*

The reason code received from the stat request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*pathname*

The path name of the HFS file.

**System action:** Processing for the command ends.

**User response:** The return code and reason code that

## BPXF175E • BPXF178I

were returned with this message indicate what caused the problem. Correct the error, and then reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXF175E THE *attr* ATTRIBUTE WAS NOT SET FOR FILE *pathname*.

**Explanation:** The BPXCOPY utility was unable to set the indicated attribute on the HFS file. No return code was returned from the chattr system call.

In the message text:

*attr*

The attribute requested. One of the following: APF, NOAPF, PROGCTL, NOPROGCTL, SHAREAS, NOSHAREAS.

*pathname*

The path name of the HFS file.

**System action:** Processing for the request ends.

**User response:** Check that the file system containing the file supports the requested attribute, and that you have the security permissions required to set the attribute. Correct the error, and then reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXF176E SYMLINK VALUE IS MISSING FOR SYMPATH *pathname*.

**Explanation:** Either SYMLINK was not specified OR no SYMLINK pathname was specified for the SYMPATH path name.

In the message text:

*pathname*

The path name to be the contents of the symbolic link.

**System action:** Processing for the request ends.

**User response:** Reenter the request, specifying at least one SYMLINK pathname for each SYMPATH path name.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXF177I THE CALL TO GETPWUID FAILED FOR UID *uid*. THE FAILING RETURN CODE IS *retcode*, AND THE REASON CODE IS *reasoncode*.

**Explanation:** An error was detected on the call to getpwuid. The uid, return code, and reason code of the failing request are displayed, which should allow for problem determination.

In the message text:

*uid* The uid specified on the getpwuid request.

*retcode*

The return code received from the getpwuid request. For an explanation of the return code, see *z/OS UNIX System Services Messages and Codes*.

*reasoncode*

The reason code received from the getpwuid request. For an explanation of the reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** Processing for the BPXCOPY ends.

**User response:** The return code and reason code that were returned with this message indicate what caused the problem. Correct the error, and then reenter the request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUO2O

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXF178I FILE *pathname* WAS SUCCESSFULLY COPIED INTO FILE *pathname*.

**Explanation:** This is a success message. Processing completed successfully.

In the message text:

*pathname*

The pathname of the file.

**System action:** Processing continues.

**User response:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFUCPY

**Routing Code:** 2

**Descriptor Code:** 5

**BPXF201I DOMAIN *domain-name* WAS NOT ACTIVATED. FILE SYSTEM TYPE *type*, SPECIFIED IN *member-name*, IS NOT ACTIVE.**

**Explanation:** During z/OS UNIX initialization, the system could not activate the specified domain. The file system type named on the NETWORK statement is not initialized.

In the message text:

*domain-name*

The domain name specified on the NETWORK statement in the BPXPRMxx parmlib member.

*type*

The value specified on the TYPE operand in the specified parmlib member.

*member-name*

The member name processed as a result of the START OMVS command.

**System action:** The domain is not activated. The system continues to process other NETWORK statements.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify that the FILESYSTYPE statement in the BPXPRMxx parmlib member defines the file system specified with the TYPE parameter on the NETWORK statement. Ask the operator to correct the problem in BPXPRMxx. IPL the system to start z/OS UNIX with the revised member.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXVSINT

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXF202I DOMAIN *domain-name* WAS NOT ACTIVATED FOR FILE SYSTEM TYPE *type*. RETURN CODE = *return\_code*, REASON CODE = *reason\_code***

**Explanation:** During z/OS UNIX initialization, the system could not activate the specified domain.

In the message text:

*domain-name*

The domain name specified on a NETWORK statement in the BPXPRMxx parmlib member.

*type*

The value specified on the TYPE operand in the specified parmlib member.

*return\_code*

The return code from the NETWORK request.

*reason\_code*

The reason code from the NETWORK request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The domain is not activated. The system continues to process other SYS1.PARMLIB statements.

**Operator response:** Contact the system programmer.

**System programmer response:** Find the cause of the problem by looking at the return code and reason code. If there is a problem with SYS1.PARMLIB, correct it. IPL the system to start z/OS UNIX with the revised member.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXVSINT

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF203I DOMAIN *domain-name* WAS SUCCESSFULLY ACTIVATED.**

**Explanation:** During z/OS UNIX initialization, a domain was successfully activated.

In the message text:

*domain-name*

The domain name specified on the NETWORK statement in the BPXPRMxx parmlib member.

**System action:** The domain was activated. The system continues to process other SYS1.PARMLIB statements.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXVSINT

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF204I TCP/IP ROUTING INFORMATION UNAVAILABLE FOR TRANSPORT DRIVER *tdname*. RETURN CODE = *return\_code*, REASON CODE = *reason\_code*.**

## BPXF205I • BPXF207I

**Explanation:** While attempting to retrieve routing information from TCP/IP, an error was detected.

In the message text:

*tdname*

The name supplied on the SUBFILESYSTYPE parmlib entry that refers to the specific INET sockets physical file system that detected the error.

*return\_code*

The return code obtained when attempting to retrieve routing information.

*reason\_code*

The reason code obtained when attempting to retrieve routing information. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The transport provider will be used in a degraded state.

**Operator response:** Contact your system administrator.

**System programmer response:** Ensure that the version of the transport provider supports z/OS UNIX's support of multiple transport drivers. After the correct versions are established, z/OS UNIX routing information retrieval may be initiated by restarting the transport provider, or, in the case of IBM's TCP/IP, the OBEYFILE command may be issued to cause TCP/IP to re-read the TCP/IP profile dataset.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCTBL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF205I UNABLE TO ESTABLISH A CONNECTION TO TRANSPORT DRIVER *tdname* FOR ROUTING INFORMATION. RETURN CODE = *return\_code*, REASON CODE = *reason*.**

**Explanation:** A general error occurred when z/OS UNIX attempted to make a connection to the transport driver named for the retrieval of routing information.

In the message text:

*tdname*

The name supplied on the SUBFILESYSTYPE parmlib entry that refers to the specific INET sockets physical file system that detected the error.

*return\_code*

The return code obtained when attempting to retrieve routing information.

*reason\_code*

The reason code obtained when attempting to retrieve routing information. For an explanation of

the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The transport provider will be used in a degraded state.

**Operator response:** Contact your system administrator.

**System programmer response:** Ensure that the version of the transport provider supports z/OS UNIX's support of multiple transport drivers. After the correct versions are established, either the transport provider must be restarted, or the system IPLed in order to start z/OS UNIX.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCTBL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF206I ROUTING INFORMATION FOR TRANSPORT DRIVER *tdname* HAS BEEN INITIALIZED OR UPDATED.**

**Explanation:** z/OS UNIX Common INET support maintains simple routing information for each transport provider connected to Common INET. This message is issued after z/OS UNIX has obtained and stored routing information for the named transport driver.

Some transport providers, such as IBM's TCP/IP, allow routing information to be updated without shutting down TCP/IP. If routing information is updated, z/OS UNIX will update stored routing information and issue this message.

In the message text:

*tdname*

The name supplied on the SUBFILESYSTYPE parmlib entry that refers to the specific INET sockets physical file system for which routing information was obtained.

**System action:** The transport provider is fully functional through z/OS UNIX Common INET support.

**Operator response:** None

**System programmer response:** None

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCTBL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF207I ROUTING INFORMATION HAS BEEN DELETED FOR TRANSPORT DRIVER *tdname*.**

**Explanation:** z/OS UNIX Common INET support maintains simple routing information for each transport

provider connected to Common INET. This message is issued after z/OS UNIX has deleted routing information for the named transport driver.

This message is issued when one of the following events occurs:

- The connection between a transport provider and z/OS UNIX is severed.
- A software error occurs in the Common INET routing information manager.

In the message text:

*tdname*

The name supplied on the SUBFILESYSTYPE parmlib entry that refers to the specific INET sockets physical file system for which routing information has been deleted.

**System action:** The transport provider will be used in a degraded state or not used at all.

**Operator response:** This message is expected if a transport provider is canceled or otherwise terminates. If this message is seen in conjunction with an z/OS UNIX software error, notify the IBM Support Center.

**System programmer response:** This message is expected if a transport provider is canceled or otherwise terminates. If this message is seen in conjunction with an z/OS UNIX software error, notify the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCTBL

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF210I A BIND REQUEST COULD NOT BE PROCESSED. NO PORT 0, INADDR\_ANY PORTS WERE RESERVED.**

**Explanation:** A bind request that specified port number 0 and Internet Protocol (IP) address INADDR\_ANY failed because there are no port numbers reserved for those binds.

**System action:** The bind request failed. The system continues processing.

**Operator response:** Contact your system programmer.

**System programmer response:** To reserve port numbers that will be assigned for port 0, INADDR\_ANY binds, use the INADDRANYPORT and INADDRANYCOUNT parameters on the NETWORK parmlib statement. The same port numbers must also be reserved on each of the transport providers specified on a SUBFILESYSTYPE parmlib statement. See the documentation for those transport providers to determine how the port numbers are reserved.

After changing these values, you must rel IPL your system in order for the new numbers to take effect.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCBND

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF211I A DUPLICATE NETWORK STATEMENT WAS FOUND FOR DOMAINNAME *domain-name*. THE DUPLICATE ENTRY WAS FOUND IN PARMLIB MEMBER *member-name* AND SPECIFIED A TYPE OF *type*. THE DUPLICATE WAS IGNORED**

**Explanation:** During z/OS UNIX initialization, the system found two NETWORK statements with the same DOMAINNAME specified. The second is a duplicate and is ignored.

In the message text:

*domain-name*

The domain name specified on the NETWORK statement in the BPXPRMxx parmlib member.

*member-name*

The member name processed as a result of the START OMVS command.

*type*

The value specified on the TYPE operand in the specified parmlib member.

**System action:** The duplicate record is ignored. The system continues to process.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify that only one NETWORK statement has been created for each DOMAINNAME. Correct the error. IPL the system to start z/OS UNIX with the revised member.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTVSINT

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXF212I NEITHER INADDRANYPORT NOR INADDRANYCOUNT WAS SPECIFIED ON THE NETWORK COMMAND FOR TYPE *type* IN MEMBER *member-name*. THESE VALUES HAVE BEEN DEFAULTED TO INADDRANYPORT(63000) AND INADDRANYCOUNT(1000).**

**Explanation:** During z/OS UNIX initialization, the system found a NETWORK statement for common Inet in the named member which did not specify either

## BPXF213E • BPXF215E

INADDRANYPORT or INADDRANYCOUNT. Therefore default values will be assigned.

In the message text:

*type*

The value specified on the TYPE operand in the specified parmlib member.

*member-name*

The member name processed as a result of the START OMVS command.

**System action:** Processing will continue with the newly assigned default values.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify that the NETWORK statement correctly reflects the values required for INADDRANY and INADDRANYCOUNT. Specify the values needed and re-IPL the system to start z/OS UNIX with the revised member.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCNWK

**Routing Code:** 2,10

**Descriptor Code:** 4

---

### BPXF213E FILE SYSTEM *name* IS NO LONGER ACCESSIBLE.

**Explanation:** This condition only occurs in a sysplex environment. The file system owner has failed and another owner for this file system could not be established. Recovery was attempted, but either no other system in the sysplex has connectivity to the file system, or no other systems are permitted to take ownership of the file system.

In the message text:

*name*

The file system name specified either on a MOUNT statement in the BPXPRMxx parmlib member or on a MOUNT command.

**System action:** The file system remains mounted, but all operations issued against this file system will fail until a new owner is established, or the file system is unmounted.

**Operator response:** Contact your system administrator.

**System programmer response:** If the file system ownership was restricted to a specific system by the NOAUTOMOVE parameter on the MOUNT command, then the owning system must be active in the sysplex. Otherwise, connectivity to the file system must be available on another system.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXMGE

**Routing Code:** 1,2

**Descriptor Code:** 3

---

### BPXF214E UNIX SYSTEM SERVICES IS UNABLE TO ACCESS ITS COUPLE DATA SET. THE DATA SET IS NOT AVAILABLE.

**Explanation:** An attempt was made to read from the z/OS UNIX System Services couple data set. The data set is not available to be read.

**System action:** All services requiring access to the data set will be delayed until a data set is made available. For example, one or more of the following file system functions may be delayed: file system initialization, mount processing, umount processing or partition recovery. Access to the couple data set will be attempted every 10 seconds until successful. Once access to the couple data set is restored, the delayed operation will resume.

**Operator response:** Contact the system programmer.

**System programmer response:** Make a couple data set available. z/OS UNIX System Services uses a type BPXMCDS couple data set. Refer to *z/OS UNIX System Services Planning* for the procedure to create an OMVS couple data set. Use the D XCF,COUPLE,TYPE=BPXMCDS system command to display the status of the z/OS UNIX System Services couple data set. Once the couple data set is defined and online, use the SETXCF COUPLE system command to enable the couple data set.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDS

**Routing Code:** 2

**Descriptor Code:** 11

---

### BPXF215E UNIX SYSTEM SERVICES IS UNABLE TO ACCESS ITS COUPLE SET. AN ATTEMPT TO READ FROM THE DATA SET ENDED WITH A RETURN CODE OF *retcode* AND A REASON CODE OF *reason*.

**Explanation:** An error occurred when attempting to access the z/OS UNIX System Services couple data set. Access to the type BPXMCDS couple data set is required in order for z/OS UNIX System Services sysplex operations to continue.

In the message text:

*retcode*

The return code received from the IXCXCDSSI macro.

*reason*

The reason code obtained from the invocation of the macro. The following table explains the possible return and reason codes:

Return Code	Reason Code	Explanation
C		Environmental error
	4	DSPSERV failed to create the XCF data space necessary to handle this request.
	8	ALESERV failed to add to the PASN the XCF data space necessary to handle this request.
	C	STORAGE failed to obtain the storage necessary to handle this request.
	10	The couple data set for this data type is not currently in use.
	14	TCBTOKEN failed to create a token for the current task.
	18	A duplicate request was received. This could be a ReadSerialized for a particular record/subrecord from a task that already owns it.
10		Failure in XCF processing.

**System action:** All services requiring access to the data set will be delayed until the data set is made available. For example, one or more of the following file system functions may be delayed: file system initialization, mount processing, unmount processing or partition recovery. Access to the couple data set will be attempted every 10 seconds until successful. Once access to the couple data set is restored, the delayed operation will resume.

**Operator response:** Contact your system programmer.

**System programmer response:** Review the return code and reason code, correct the error and make a couple data set available. z/OS UNIX System Services uses a type BPXMCDS couple data set. Refer to *z/OS UNIX System Services Planning* for the procedure to create an OMVS couple data set. Use the D XCF,COUPLE,TYPE=BPXMCDS system command to display the status of the z/OS UNIX System Services couple data set. Once the couple data set is defined and online, use the SETXCF COUPLE system command to enable the couple data set.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDS

**Routing Code:** 2

**Descriptor Code:** 11

#### BPXF216E FILE SYSTEM PARTITION CLEANUP IS DELAYED DUE TO *text*

**Explanation:** File system recovery cannot proceed with takeover of file systems served by the failed system until critical resources held by the identified system in the sysplex are released.

In the message text:

*text*

One of the following:

##### MOUNT PROCESSING ON SYSTEM *name*.

Indicates that a file system mount operation is in progress.

##### UNMOUNT PROCESSING ON SYSTEM *name*.

Indicates that a file system unmount operation is in progress.

##### MOVE PROCESSING ON SYSTEM *name*.

Indicates that a file system move operation is in progress.

##### INITIALIZATION PROCESSING ON SYSTEM *name*.

Indicates that file system initialization is in progress.

##### RECOVERY PROCESSING ON SYSTEM *name*.

Indicates that file system partition recovery is in progress.

##### UNMOUNTALL PROCESSING ON SYSTEM *name*.

Indicates that file system forced unmount is in progress.

##### UNOWNED RECOVERY PROCESSING ON SYSTEM *name*.

Indicates that file system partition recovery of unowned file systems is in progress.

##### REMOUNT PROCESSING ON SYSTEM *name*.

Indicates that a file system remount is in progress.

##### (UNKNOWN) PROCESSING ON SYSTEM *name*.

Indicates that the delay in recovery cannot be determined.

*name*

The name of the system that is holding critical file system resources.

**System action:** File system server takeover processing is delayed until either the critical resource is released or the maximum delay time limit is reached.

**Operator response:** Notify the system programmer.

**System programmer response:** The pending file system operation identified by this message must complete. If the pending condition cannot be cleared then the identified system must be re-IPLed in order for file system recovery to complete successfully.

## BPXF217E • BPXF218I

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFSR

**Routing Code:** 1,2

**Descriptor Code:** 3

---

### BPXF217E FILE SYSTEM PARTITION CLEANUP FAILED DUE TO *text*

**Explanation:** File system recovery could not proceed with takeover of file systems served by the failed system. Those file systems will become inaccessible.

In the message text:

*text*

One of the following:

**MOUNT PROCESSING ON SYSTEM** *name*.

Indicates that a file system mount operation is in progress.

**UNMOUNT PROCESSING ON SYSTEM** *name*.

Indicates that a file system unmount operation is in progress.

**MOVE PROCESSING ON SYSTEM** *name*.

Indicates that a file system move operation is in progress.

**INITIALIZATION PROCESSING ON SYSTEM** *name*.

Indicates that file system initialization is in progress.

**RECOVERY PROCESSING ON SYSTEM** *name*.

Indicates that file system partition recovery is in progress.

**UNMOUNTALL PROCESSING ON SYSTEM** *name*.

Indicates that file system forced unmount is in progress.

**UNOWNED RECOVERY PROCESSING ON SYSTEM** *name*.

Indicates that file system partition recovery of unowned file systems is in progress.

**REMOUNT PROCESSING ON SYSTEM** *name*.

Indicates that a file system remount is in progress.

**(UNKNOWN) PROCESSING ON SYSTEM** *name*.

Indicates that the failure in recovery cannot be determined.

*name*

The name of the system that is holding critical file system resources.

**System action:** File system server takeover processing did not complete as a part of partition cleanup. The affected file systems will remain inaccessible until a new server can be established. The

sysplex will attempt to recover the affected file systems periodically.

**Operator response:** Notify the system programmer.

**System programmer response:** File system recovery processing will continue to attempt recovery. If recovery does not occur, the following actions can be taken to recover each affected file system:

- The file system should be recovered when the failed system re-initializes and joins the sysplex.
- Use the TSO UNMOUNT command to unmount the affected file system. This command must be issued on each active system in the sysplex. Once the file system is unmounted, use the TSO MOUNT command to mount the file system on the desired server system.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXFSR

**Routing Code:** 1,2

**Descriptor Code:** 3

---

### BPXF218I ONE OR MORE FILE SYSTEMS DID NOT MOUNT DUE TO INCONSISTENT FILESYSTYPE STATEMENTS.

**Explanation:** This error condition only applies to sysplex configurations. This system could not mount a file system that was mounted by another system in the sysplex because there is no active Physical File System that matches the Physical File System TYPE that was specified on the original MOUNT request. There are inconsistent FILESYSTYPE statements in the BPXPRMxx parmlib members. All systems in the sysplex must specify the same FILESYSTYPE statements.

**System action:** Each file system that does not have an active Physical File System of the TYPE that was specified on the original MOUNT command is not mounted on this system. System processing continues.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify that each system in the sysplex specifies the same FILESYSTYPE statements in the BPXPRMxx parmlib member.

The 'D OMVS,P' command can be issued on each system in the sysplex to identify the active Physical File Systems on each system. The 'D OMVS,F' command can also be issued on each system in the sysplex to identify the file systems mounted on each system. The output from these commands can then be compared across all systems in the sysplex to determine any differences.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXRMT

**Routing Code:** 2**Descriptor Code:** 4

---

**BPXF219I A SOCKETS PORT ASSIGNMENT CONFLICT EXISTS BETWEEN UNIX SYSTEM SERVICES AND *name*.**

**Explanation:** A bind request that specified port number 0 and Internet Protocol (IP) address INADDR\_ANY failed because a port number that is reserved for use by z/OS UNIX Common INET is currently being used by the named transport provider.

In the message text:

*name*

The name of the transport provider using the reserved port. This name was specified on a SUBFILESYSTYPE statement on the BPXPRMxx parmlib member that was used to start z/OS UNIX.

**System action:** The bind service failed. The system continues processing.

**Operator response:** Contact your system programmer.

**System programmer response:** The port numbers assigned for binds that specify port number 0 and IP address INADDR\_ANY are reserved for use in z/OS UNIX with the INADDRANYPORT and INADDRANYCOUNT parameters on the NETWORK statement for Common INET in the parmlib. The same port numbers must also be reserved on the named transport provider so they can be assigned by z/OS UNIX. See the documentation for the named transport provider to determine how the port numbers are reserved.

If port numbers are specified for z/OS UNIX, the same port numbers must be specified to the named transport provider.

If ports were reserved on the named transport provider for use with z/OS UNIX, the same port numbers must be specified to z/OS UNIX using the INADDRANYPORT and INADDRANYCOUNT parameters on the NETWORK statement.

After changing these values, you must reIPL your system in order for the new numbers to take effect.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCBND

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF220I ALL OF THE RESERVED SOCKET PORTS ARE IN USE.**

**Explanation:** A bind request that specified port number 0 and Internet Protocol (IP) address INADDR\_ANY failed because all of the port numbers

reserved for those binds are currently in use.

**System action:** The bind request failed. The system continues processing.

**Operator response:** Contact your system programmer.

**System programmer response:** The port numbers that are assigned for binds that specify port number 0 and IP address INADDR\_ANY are reserved for use in z/OS UNIX. They are specified on the INADDRANYPORT and INET in the parmlib member used to start z/OS UNIX. You must increase the number of ports available either by specifying the INADDRANYCOUNT operand (if it was not specified), or by specifying a larger number for that parameter. Make sure that you also specify that same larger number on each of the transport providers. After changing these values, you must reIPL your system in order for the new numbers to take effect.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCBND

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF220I ALL OF THE RESERVED SOCKET PORTS ARE IN USE.**

**Explanation:** A bind request that specified port number 0 and Internet Protocol (IP) address INADDR\_ANY failed because all of the port numbers reserved for those binds are currently in use.

**System action:** The bind request failed. The system continues processing.

**Operator response:** Contact your system programmer.

**System programmer response:** The port numbers that are assigned for binds that specify port number 0 and IP address INADDR\_ANY are reserved for use in z/OS UNIX. They are specified on the INADDRANYPORT and INET in the parmlib member used to start z/OS UNIX. You must increase the number of ports available either by specifying the INADDRANYCOUNT operand (if it was not specified), or by specifying a larger number for that parameter. Make sure that you also specify that same larger number on each of the transport providers. After changing these values, you must reIPL your system in order for the new numbers to take effect.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTCBND

**Routing Code:** 2

**Descriptor Code:** 4

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**BPXF221I FILE SYSTEM *name* FAILED TO MOUNT LOCALLY RETURN CODE =xxxxxxxx, REASON CODE = yyyy-yyyy. THE FILE SYSTEM IS ACCESSIBLE ON THIS SYSTEM THROUGH A MOUNT ON A REMOTE SYSTEM.**

**Explanation:** This condition only occurs in a sysplex environment. The file system was intended to be mounted locally but the local mount failed. The file system is made available through a remote mount on the owning system.

In the message text:

*name*

The file system name specified either on a MOUNT statement in the BPXPRMxx parmlib member or on a MOUNT command.

xxxxxxxx

The return code from the mount request.

yyyy-yyyy

The reason code from the mount request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The file system is available through the remote mount and all local requests for this file system will be sent to that remote system for processing.

**Operator response:** Contact your system administrator.

**System programmer response:** If there is a reason for this file system to be mounted locally, determine the reason that the local mount failed. This might be due to the file system not being accessible from the local system. Once the original problem is corrected, unmount the file system and mount it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXRMT

**Routing Code:** 2

**Descriptor Code:** 12

---

**BPXF222E UNIX SYSTEM SERVICES IS UNABLE TO OBTAIN COUPLE DATA SET SERIALIZATION.**

**Explanation:** An attempt was made to serialize and read the z/OS UNIX System Services couple data set. Serialization was lost before the read could successfully complete.

**System action:** All services requiring access to the data set will be stopped until a data set is made available. The operation will be retried periodically.

**Operator response:** Contact your system programmer.

**System programmer response:** This condition may be the result of an I/O error on the z/OS UNIX System Services couple data set. If it persists or recurs, make a new couple data set available.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXCDS

**Routing Code:** 2

**Descriptor Code:** 11

---

**BPXF223I THE *address\_space\_type* ADDRESS SPACE, *a\_name*, DID NOT START BECAUSE THE ASCRE MACRO ENDED WITH DECIMAL RETURN CODE *return\_code* AND DECIMAL REASON CODE *reason\_code*.**

**Explanation:** An attempt to start either the RESOLVER address space or a COLONY address space did not complete successfully because the ASCRE macro ended with a failing return code and reason code.

In the message text:

*address\_space\_type*

One of the following:

**COLONY**

A colony address space was being started.

**RESOLVER**

The resolver address space was being started.

*a\_name*

The address space name.

*return\_code*

A decimal return code. For an explanation of the return code, see the description of the ASCRE macro in the *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*.

*reason\_code*

A decimal reason code. For an explanation of the reason code, see the description of the ASCRE macro in the *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*.

**System action:** The address space did not start.

**Operator response:** Contact your system programmer.

**System programmer response:** Look at the ASCRE macro in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN* and follow the instructions for the displayed return and reason codes.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF224I THE RESOLVER\_PROC, *a\_name*, IS BEING STARTED.**

**Explanation:** The resolver address is being started.

In the message text:

*a\_name*

The name of the procedure that was specified with the RESOLVER\_PROC statement in a BPXPRMxx parmlib member.

**System action:** The address space will start unless an error occurs.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF225I THE RESOLVER\_PROC, *a\_name*, WAS NOT STARTED. THERE IS NO AF\_INET OR AF\_INET6 DOMAIN TO SUPPORT THE RESOLVER FUNCTION.**

**Explanation:** The RESOLVER\_PROC statement was specified in a BPXPRMxx parmlib member; however, there is no AF\_INET or AF\_INET6 domain to support the specified RESOLVER\_PROC.

In the message text:

*a\_name*

The name of the procedure that was specified with the RESOLVER\_PROC statement in a BPXPRMxx parmlib member.

**System action:** The resolver address space is not started. The system continues processing.

**Operator response:** Contact your system programmer.

**System programmer response:** The resolver address space is used by applications for host name-to-host address or host address-to-host name resolution. If your applications require that support, then you must configure your system with a physical file system that supports an AF\_INET or AF\_INET6 domain. You can do this by adding either a FILESYSTYPE or a SUBFILESYSTYPE statement to your BPXPRMxx member. If you do not require that support, you can remove the RESOLVER\_PROC specification from your BPXPRMxx parmlib member.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXF226E UNIX SYSTEM SERVICES HAS REJECTED *text***

**Explanation:** An attempt was made to activate a primary or alternate type BPXMCDS couple data set. z/OS UNIX System Services has rejected the request because the couple data set was defined with a version that is not compatible with the current system requirements.

In the message text:

*text*

One of the following:

**PRIMARY COUPLE DATA SET *dataset* ON VOLUME *volume*. COUPLE DATA SET VERSION *version* IS NOT SUPPORTED.**

Indicates the PRIMARY type BPXMCDS couple data set.

**ALTERNATE COUPLE DATA SET *dataset* ON VOLUME *volume*. COUPLE DATA SET VERSION *version* IS NOT SUPPORTED.**

Indicates the ALTERNATE type BPXMCDS couple data set.

*dataset*

The name of the couple data set.

*volume*

The volume that contains the specified couple data set.

*version*

The formatted version of the couple data set.

**System action:** The attempt to activate the specified couple data set failed. System processing continues.

**Operator response:** Contact your system programmer.

**System programmer response:** If you have SYSPLEX=NO defined in your BPXPRMxx member, ignore this message. Otherwise, see *z/OS UNIX System Services Planning* to determine what versions of the type BPXMCDS couple data set are supported by this version of z/OS, and review the procedure to define the type BPXMCDS couple data set.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMCDSF

**Routing Code:** 2,10

**Descriptor Code:** 3

---

**BPXF227I SOCKET FILE SYSTEM *sockname* WITH ENTRYPPOINT *entry* IS NO LONGER NECESSARY AND WILL NOT BE ACTIVATED.**

**Explanation:** The named socket file system with the entrypoint specified was found in the BPXPRMxx parmlib member in either a FILESYSTYPE or

## BPXF228I • BPXF232E

SUBFILESYSTYPE statement. This statement can be removed since the physical file system requested is no longer supported.

In the message text:

*sockname*

The name of the socket physical file system.

*entry*

The entrypoint name for the file system.

**System action:** The named socket file system will not be activated. The system continues processing with the next entry in BPXPRMxx.

**Operator response:** Contact your system programmer.

**System programmer response:** Remove the FILESYSTYPE or SUBFILESYSTYPE statement for this entrypoint from BPXPRMxx.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTIINT, BPXTLINT

**Routing Code:** 2,10

**Descriptor Code:** 3

---

**BPXF228I**   **ERROR CREATING DIRECTORY FOR PATHNAME** *pathname* **RETURN CODE=**  
*rc* **REASON CODE=***rsn*.

**Explanation:** During z/OS UNIX initialization, the path name constructed using the MOUNTPOINT and MKDIR keywords of the ROOT or MOUNT statement in the BPXPRMxx parmlib member could not be created.

In the message text:

*pathname*

The path name specified on the MKDIR keyword on the ROOT or MOUNT statement of the BPXPRMxx parmlib member. This name may be truncated.

*rc* The return code from the MKDIR request.

*rsn*

The reason code from the MKDIR request.

**System action:** The file system is mounted, and processing continues.

**Operator response:** Contact your system programmer.

**System programmer response:** Use the return and reason codes to determine if the problem can be corrected. For an explanation of the return code and reason code, see *z/OS UNIX System Services*

*Messages and Codes.* If you are not able to correct the problem, contact the IBM Support Center to report the defect identified by this message. Provide the console log containing this message, and any corresponding dump.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT

---

**BPXF230I**   **BPXF230I UNIX SYSTEM SERVICES HAS REJECTED ALTERNATE COUPLE DATA SET** *data set name* **ON VOLUME** *volume name*. **THE COUPLE DATA SET VERSION IS** *alternate version*. **THE ACTIVE PRIMARY COUPLE DATA SET VERSION IS** *primary version*.

**Explanation:** An attempt was made to activate an alternate type BPXMCDS couple data set. UNIX System Services has rejected the request because the couple data set was defined with a version that is less than the active primary couple data set. The version of the alternate couple data set must be equal to or greater than the version of the primary couple data set.

In the message text:

*data set name*

The name of the couple data set rejected by UNIX System Services.

*volume name*

The name of the volume on which the rejected couple data set resides.

*alternate version*

The version of the couple data set rejected by UNIX System Services.

*primary version*

The version of the active primary couple data set.

**System action:** The attempt to activate the specified couple data set failed. System processing continues.

**Operator response:** Contact your system programmer.

**System programmer response:** Use the SETXCF COUPLE system command to enable a type BPXMCDS alternate couple data set that is formatted at a version equal to or greater than the version of the active type BPXMCDS primary couple data set.

**Detecting Module:** BPXMCDSF

**Routing Code:** 2,10

**Descriptor Code:** 3

---

**BPXF232E**   **ERROR MOVING FILE SYSTEM** *fsname* **FILE** *filename* **INODE** *inodeno* **RETURN CODE =***retcode*, **REASON =***reason*

**Explanation:** The system encountered an error with a particular file which caused the file system move to fail. The return and reason codes identify the cause of the problem. This message may be issued with BPXO037E.

In the message text:

*fsname*

The file system which was being moved.

*filename*

The file name in the file system which was processed at the time of the error. Note that there may be more than one file with this name in the file system. The file name may not be available in some cases. The inode can be used to identify the file.

*inodeno*

The Inode number of file name, in case the file name is missing or is a duplicate.

*retcode*

Return code that stopped this move request.

*reason*

Reason code that stopped this move request. The code may be internal only.

**System action:** File system processing continues. Depending on the command, another system may be selected for this move request.

**Operator response:** Contact the system programmer.

**System programmer response:** Interpret the return and reason codes. A likely cause would involve setting a byte range lock for the file on the new target system. An EMVSERR is likely an internal error, in which case a system dump should occur. If contacting the IBM Support Center is necessary, the console log and a dump including a z/OS UNIX component file trace should be provided.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXMCS

**Routing Code:** -

**Descriptor Code:** 4

---

**BPXF232I    ERROR MOVING FILESYSTEM *fsname***  
**FILE *filename* INODE *inodeno* RETURN**  
**CODE = *rc* REASON = *rsn***

**Explanation:** This message is issued when attempting to move a file system, and processing involving a particular file caused the move to fail. The return and reason codes identify the cause of the problem. Message BPXO037E might accompany this message,

In the message text:

*fsname*

The file system being moved.

*filename*

The file name in the file system being processed at the time of the error. Note that there can be more than one file with this name in the filesystem, and the file name might not be available in some cases.

*inodeno*

The inode number of the file name, in case there are duplicate file names in the file system.

*rc* The return code that stopped this move request.

*rsn*

The reason code that stopped this move request. (This might be an internal code.)

**System action:** File system processing continues.

**Operator response:** Contact your system programmer.

**System programmer response:** Interpret the return and reason codes. A likely cause involves setting a byte-range lock for the file on the new target system. An EMVSERR most likely indicates an internal error; if so, the system provides a system dump. If necessary, contact the IBM Support Center and have available your console log and a dump that includes a UNIX System Services component file trace.

**Detecting Module:** BPXMCDSF

---

**BPXF233E    UNIX SYSTEM SERVICES COUPLE**  
**DATA SET SPECIFIES INCORRECT**  
**DISTBRLM VALUE**

**Explanation:** The UNIX System Services BPXMCDS couple data set specifies a DISTBRLM value of 0 , which is not supported above z/OS Version 1 Release 5. A DISTBRLM value of 1, enabling distributed BRLM, is assumed.

**System action:** File system processing enabling distributed byte-range locking continues

**Operator response:** Contact your system programmer.

**System programmer response:** Change the DISTBRLM in the BPXMCDS to 1.

Ensure distributed byte-range locking support is installed on all systems at the z/OS V1R6 level. Then update and activate the UNIX System Services couple data set, BPXMCDS, to enable distributed BRLM. If distributed BRLM is not yet active, it will become active once the central BRLM server goes down. Applications on systems which do not have distributed byte-range locking support installed will likely also receive locking errors.

**Detecting Module:** BPXMCDSF

---

**BPXF234I    FILE SYSTEM *name* WAS MOUNTED**  
**WITH AUTOMOVE(YES)**

**Explanation:** A file system mounted in a mode for which it is capable of being directly mounted to the PFS on all systems is considered automoveable. If this was a MOUNT, the AUTOMOVE option has been set to YES. If this was a move, the new owner has reset the AUTOMOVE option to YES for this file system.

In the message text:

*name*

The name of the file system.

## BPXF236I • BPXF237I

- | **System action:** None.
- | **Operator response:** None.
- | **System programmer response:** None.
- | **Source:** z/OS UNIX System Services kernel (BPX)
- | **Detecting Module:** BPXFSMNT, BPXTXMCS
- | **Routing Code:** -
- | **Descriptor Code:** 4

---

### BPXF236I

**FILE SYSTEM *failed\_filesysname*  
WAS NOT MOUNTED.  
THE MOUNT POINT SPECIFIED IN  
member-name ALREADY HAS  
FILE SYSTEM *mounted\_filesysname*  
MOUNTED ON IT.**

**Explanation:** The system could not mount the specified file system either during z/OS initialization or in response to the SET OMVS=xx command because the mount point specified for the file system on the MOUNT statement in SYS1.PARMLIB is the root for another mounted file system. A file system cannot be mounted on a root.

In the message text:

***failed\_filesysname***

The file system name specified on the MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

***member-name***

The BPXPRMxx parmlib member name processed as a result of the START request.

***mounted\_filesysname***

The name of the file system that was already mounted at the mount point. The file system name is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

**System action:** The system does not mount file system *failed\_filesysname*. The system continues to process other MOUNT statements in the BPXPRMxx parmlib member.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify that two mount statements don't specify the same MOUNTPOINT.

Do one of the following:

- Ask the operator to correct the problem in BPXPRMxx. IPL the system to start z/OS UNIX with the revised member.
- Ask a superuser to enter the corrected information using the TSO/E MOUNT command.

Verify that two mount statements don't specify the same MOUNTPOINT.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT, BPXTXRIN

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXF237I FILE SYSTEM *filesysname* WAS  
ALREADY MOUNTED ON PATHNAME  
*pathname*.**

**Explanation:** The system could not mount the specified file system either during z/OS initialization or in response to the SET OMVS=xx command because the file system was already mounted.

In the message text:

***filesysname***

The file system name specified on the MOUNT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it. For the HFS file system, FILESYSTEM refers to the name of the HFS data set containing the file system.

***pathname***

The last 64 characters of the mount point name of the path where the specified file system was already mounted. The pathname was specified either on a MOUNT statement in the BPXPRMxx parmlib member or on a MOUNT command.

**System action:** The system does not mount file system *filesysname*. The system continues to process other MOUNT statements in the BPXPRMxx parmlib member.

**Operator response:** Contact the system programmer.

**System programmer response:**

Verify the mount statements in BPXPRMxx and do one of the following:

Do one of the following:

- Ask the operator to correct the problem in BPXPRMxx. Either IPL the system to start z/OS UNIX with the revised member or issue the SET OMVS=xx to execute the mount statement in the revised member.
- Ask a superuser to enter the corrected information using the TSO/E MOUNT command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSLIT, BPXTXRIN

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXF900I COLONY PHYSICAL FILE SYSTEM WITH FILESYSTYPE *type* COULD NOT BE STARTED. COLONY PFS SUPPORT REQUIRES OMVS FORK SERVICES.**

**Explanation:** The initialization of the specified physical file system failed because OMVS fork services are not available. The F BPXOINIT,SHUTDOWN=FORKS command had been issued to shut down fork services before the system tried to initialize the specified file system.

In the message text:

*type*

Displays the value specified with the TYPE parameter of the FILESYSTYPE statement in the BPXPRMxx parmlib member.

**System action:** The system cannot start the specified physical file system.

**Operator response:** Issue the F BPXOINIT,RESTART=FORKS command to re-enable the OMVS fork services. Then restart the physical file system.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXVCPFS

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF901I ERROR CREATING DIRECTORY *dirname* RETURN CODE =*retcode* REASON CODE =*rsnocode***

**Explanation:** While mounting the sysplex root file system, the creation of the system root or version root directory failed. This usually indicates a full file system.

In the message text:

*dirname*

The directory for the system root or version root.

*retcode*

The return code from the mkdir request.

*rsnocode*

The reason code from the mkdir request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The file system was mounted, and processing continues. The specified directory was not created.

**Operator response:** None.

**System programmer response:** Review return code and reason code in *z/OS UNIX System Services Messages and Codes* to determine the appropriate action.

**Source:** z/OS UNIX System Services file system

**Detecting Module:** BPXFSMNT

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF902I *dirname* CANNOT BE CREATED BECAUSE FILE SYSTEM *filesys* IS MOUNTED IN READ-ONLY MODE**

**Explanation:** While mounting the sysplex root file system as read-only, it was detected that the system root or version root directory does not exist.

In the message text:

*dirname*

The directory for the system root or version root.

*filesys*

The name of the sysplex root file system.

**System action:** The file system was mounted, and processing continues.

**Operator response:** None.

**System programmer response:** Use either of the following procedures:

- Procedure 1:
  1. Issue F OMVS,SHUTDOWN command to shut down all systems.
  2. Change the ROOT statement in the BPXPRMxx parmlib member to a mode of RDWR.
  3. Issue F OMVS,RESTART command to restart all systems.
  4. (Optional) Remount the sysplex root as READ.
- Procedure 2:
  1. Remount the sysplex root as RDWR.
  2. Create the system root and version root with the TSO MKDIR command.
  3. (Optional) Remount the sysplex root as READ.

**Source:** z/OS UNIX System Services file system

**Detecting Module:** BPXFSMNT

**Routing Code:** 2

**Descriptor Code:** 4

**BPXF903I THE ATTRIBUTE RETRIEVAL CALL (IGWASMS) FOR FILE SYSTEM *fname* FAILED. RC = *retcode*, RSN = *rsnocode*, DIAG = *diagcode***

**Explanation:** The system could not obtain attribute information for the specified file system because of an

## BPXH002E • BPXH004I

- | unexpected error from the IGWASMS service.
- | In the message text:
  - | *fsname*
    - | The name of the file system associated with this request.
  - | *retcode*
    - | The return code from the data set attribute retrieval call (IGWASMS).
  - | *rsnocode*
    - | The reason code from the data set attribute retrieval call (IGWASMS).
  - | *diagcode*
    - | The diagnostic code from the data set attribute retrieval call (IGWASMS).
  - | For an explanation of the return, reason and diagnostic codes, see *z/OS DFSMSdtp Advanced Services*.
- | **System action:** The file system attributes could not be determined. The system continues processing without attribute information.
- | **Operator response:** Contact the system programmer.
- | **System programmer response:** Use the return, reason and diagnostic codes to determine the cause of the IGWASMS failure and the action to take to resolve the issue. Retry the request after the problem has been corrected.
- | **Source:** z/OS UNIX System Services file system
- | **Detecting Module:** BPXVRGEX
- | **Routing Code:** 2
- | **Descriptor Code:** 4

---

**BPXH002E** There are inconsistent sysplex parameters. In BPXPRMxx,  
SYSPLEX(NO) is being used, but the parameter specified SYSPLEX  
for the parameter of check *check\_name* in  
HZSPRMxx. IBM SUGGESTION:  
HZSPRMxx parameter for this check should be  
consistent with BPXPRMxx SYSPLEX parameter.

**Explanation:** The HZSPRMxx parameter for this check is not consistent with the BPXPRMxx sysplex value for this system.

**System action:** The system continues processing.

**Operator response:** Report this to your system programmer.

**System programmer response:** Ensure that the HZSPRMxx parameter specification for *check\_name* is consistent with what is reflected in BPXPRMxx and with how you intend that this system is configured.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS MVS Initialization and Tuning Reference* and *z/OS UNIX System Services Planning* for information about specification of the BPXPRMxx parameter. Also, refer to *IBM Health Checker for z/OS: User's Guide* for information about this check and its parameters.

**Automation:** N/A

**Detecting Module:** BPXHCFL1

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH003I** z/OS UNIX System Services is configured using OMVS=(suffix) which correspond to the BPXPRMxx suffixes.

**Explanation:** The current configuration of z/OS UNIX System Services.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

**Detecting Module:** BPXHCFL1,BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH004I** No file systems are mounted; *check\_name* could not be run.

**Explanation:** The check could not be run.

**System action:** The system continues processing.

**Operator response:** Report this problem to your system programmer.

**System programmer response:** Issue the DISPLAY OMVS command to display information on mount failures. Also, refer to the operlog or syslog for related messages, possibly those relating to mount failures.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System*

**Services Planning** for information about the DISPLAY OMVS command.

**Automation:** N/A

**Detecting Module:** BPXHCFL2

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH005I** The automove configuration verification was not performed because the *parameter* specified NOPLEX for the parameter of check *check\_name* in HZSPRMxx.

**Explanation:** If you specify NOPLEX for the *check\_name* parameter, file system verification associated with sysplex values are not performed.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** Refer to *IBM Health Checker for z/OS: User's Guide* for information about check and its parameters.

**Automation:** N/A

**Detecting Module:** BPXHCFL1

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH007E** File system *file system* is

designated as AUTOMOVE, but the parent file system is not.

**Explanation:** File system *failing filesys* mounted on pathname *path* is defined as AUTOMOVE, but the parent file system, *parent filesys*, is defined as either NOAUTOMOVE or UNMOUNT. If a failure occurred on the owning system the file system defined as automove will not be recovered until that failing system has been restarted.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** IBM SUGGESTION: Either mount this file system on a parent file system that is defined as AUTOMOVE or change the automove characteristics associated with the parent file system.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** z/OS UNIX System Services Planning describes the recommendations for this check.

**Automation:** N/A

**Detecting Module:** BPXHCFL3

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH009I** No errors were detected in the file system configuration.

**Explanation:** The file system is configured correctly.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

**Detecting Module:** BPXHCFL1

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH010E** *check\_name* is not applicable because z/OS UNIX System Services is not available.

**Explanation:** The check could not execute.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** Configure and activate z/OS UNIX System Services.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

**Detecting Module:**  
BPXHCFL1,BPXHCFL2,BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH011E** There are inconsistent sysplex parameters. In BPXPRMxx,

SYSPLEX(YES) is being used, but the parameter specified NOPLEX

for the parameter of check *check\_name* in

**HZSPRMxx. IBM SUGGESTION:**  
NOPLEX reflects a single system  
image without

file system sharing. The HZSPRMxx  
parameter for this check should be

consistent with the BPXPRMxx  
SYSPLEX parameter.

**Explanation:** The HZSPRMxx parameter for this check is not consistent with the BPXPRMxx sysplex value for this system.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** Ensure that the HZSPRMxx parameter specification for *check\_name* is consistent with what is reflected in BPXPRMxx and with how you intend that this system is configured.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS MVS Initialization and Tuning Reference* and *z/OS UNIX System Services Planning* for information about specification of the BPXPRMxx parameter. Also, refer to *IBM Health Checker for z/OS: User's Guide* for information about this check and its parameters.

**Automation:** N/A

**Detecting Module:** BPXHCFL1

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH012E** File system *file system* is designated as AUTOMOVE, but the parent file system has an automove configuration error.

**Explanation:** File system *file system* will not be accessible if it is moved to a new system, in the event of a system failure. The parent file system, *parent filesystem*, has a previously reported automove error.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** Correct the error that was reported for parent file system, *parent filesystem*, and rerun the check.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System Services Planning* for considerations about specifying automove for file systems.

**Automation:** N/A

**Detecting Module:** BPXHCFL3

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH013E** Service *service* failed with return code *rc* and reason code *rsn* while performing check *check\_name*.

**Explanation:** This is an internal error. The check cannot continue.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** Refer to the services documentation.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System Services Messages and Codes* and *z/OS UNIX System Services Programming: Assembler Callable Services Reference*.

**Automation:** N/A

**Detecting Module:** BPXHCFL2,BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH014E** The version file system *file system* is mounted read-write, but it should be mounted read-only.

**Explanation:** The version file system, in path *path*, is mounted read-write. The version file system, *file system* should be mounted read-only for better performance. Mounting read-write can result in poor performance for SYSPLEX operations because file system I/O must be directed between system images in a sysplex.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** IBM SUGGESTION: Perform all the post-installation actions for mounting the version file system in read-only mode. Then, follow the steps for updating BPXPRMxx to mount the version file system in read-only mode.

Note that the mount mode is changed without warning. A change from read-write to read-only will cause failures in processes that are writing to the file system.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System Services Planning* for the detailed post-installation steps for changing how the version file system is mounted.

**Automation:** N/A

**Detecting Module:** BPXHCFL3

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH015E** **File system** *file system* is designated as *automove\_setting*, but it should be designated as AUTOMOVE.

**Explanation:** File system *file system* in path *path* should be designated as AUTOMOVE in a sysplex environment. AUTOMOVE specifies that ownership of the file system is automatically moved to another system in the event of a system failure. It is the default. If a failure occurred on the owning system this file will not be moved and would become unavailable.

In the message:

*automove-setting*  
NOAUTMOVE or UNMOUNT.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** IBM SUGGESTION: *file system* should be changed to AUTOMOVE in BPXPRMxx. See *z/OS UNIX System Services Planning* for additional information on customizing BPXPRMxx for shared file systems.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System Services Planning* for information about configuring a shared file system in a sysplex.

**Automation:** N/A

**Detecting Module:** BPXHCFL2,BPXHCFL3

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH016E** The sysplex root *file system* is mounted read-only and should be mounted read-write.

**Explanation:** The sysplex root should be read-write to be able to create mount points that are used to access sysplex-wide data. Processes that attempt to write to this file system will fail.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** IBM SUGGESTION: *file system* should be changed to MODE(RDWR) in BPXPRMxx.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System Services Planning* for additional information on customizing BPXPRMxx for shared file systems.

**Automation:** N/A

**Detecting Module:** BPXHCFL2

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH017E** System-specific file system *file system* is mounted read-only and should be mounted read-write.

**Explanation:** System-specific file system *file name*, Path *path name*, is mounted read-only, it should be mounted read-write. It contains the mount points for system-specific data and symbolic links to access sysplex-wide data.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** IBM SUGGESTION: *file system* should be changed to MODE(RDWR) in BPXPRMxx.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System Services Planning* for additional information on customizing BPXPRMxx for shared file systems.

**Automation:** N/A

**Detecting Module:** BPXHCFL3

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH018E** The system-specific file system

*file system*

should be designated as UNMOUNT.

**Reference Documentation:** See *z/OS UNIX System Services Planning* for additional information on customizing BPXPRMxx for shared file systems and for information about creating system-specific file systems.

## BPXH020E • BPXH025E

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH020E** *check\_name received an unknown function code of function code from IBM Health Checker for z/OS.*

**Explanation:** This is an internal error.

**System action:** The system continues processing.

**Operator response:** Report this problem to your system programmer.

**System programmer response:** Contact your IBM Support Center.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *IBM Health Checker for z/OS: User's Guide*.

**Automation:** N/A

**Detecting Module:** BPXHCFL1,BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH021E** *check\_name received an unknown entry code of entry code from IBM Health Checker for z/OS.*

**Explanation:** This is an internal error.

**System action:** The system continues processing.

**Operator response:** Report this problem to your system programmer.

**System programmer response:** Contact your IBM Support Center.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

**Detecting Module:** BPXHCFL1,BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH023E** **A call to the STORAGE OBTAIN service failed with return code rc.**

**Explanation:** This is an internal error.

**System action:** The system continues processing.

**Operator response:** Report this problem to your system programmer.

**System programmer response:** Contact your IBM Support Center.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS MVS Programming: Authorized Assembler Services Reference SET-WTO*.

**Automation:** N/A

**Detecting Module:** BPXHCFL2,BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH024E** **The user ID associated with hzsproc is not authorized to file system file system. This report is incomplete.**

**Explanation:** The Pathname for File System *file system* cannot be accessed, because *hzsproc* does not have permission to access it.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** Verify the user ID associated with the *hzsproc* has permission to all directories to run the *check\_name* check.

**IBM SUGGESTION:** *hzsproc* should have permission to all directories to complete this report.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** For additional information on providing permission to traverse directories see APAR II12593. Also, see *z/OS UNIX System Services Planning* for additional information on defining z/OS UNIX users to RACF.

**Automation:** N/A

**Detecting Module:** BPXHCFL3

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH025E** **File system file system**

**does not support multilevel security.  
Unpredictable results will occur.**

**Explanation:** *file system* must be ZFS. ZFS file systems are the only physical file system with support for security labels in a multilevel security environment. Running a multilevel security environment in a mixed sysplex (with systems below z/OS V1R5) will have unpredictable results.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** IBM SUGGESTION: Limited support allows you to support HFS file systems in this environment; however, this capability is limited to read-only access. When running in a multilevel security environment, use the zFS file system if write access is required.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS Planning for Multilevel Security and the Common Criteria* for more information.

**Automation:** N/A

**Detecting Module:** BPXHCFL2,BPXHCFL3

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH026I** **The system-specific file system file system path *path* should be designated as UNMOUNT.**

**Explanation:** System specific file system should be designated as UNMOUNT in BPXPRMxx. However, NOAUTOMOVE may be acceptable. If a system failure occurred, this file system would remain in the file system hierarchy as an unowned file system until it was unmounted or the owning system was restarted. All operations for an unowned file system will fail until an owner is established.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System Services Planning* for additional information on customizing BPXPRMxx for shared file systems.

**Automation:** N/A

**Detecting Module:** BPXHCFL3

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH028E** **The user ID associated with *hzsproc* is not defined to RACF.**

**Explanation:** The *check\_name* check does not have permission to required z/OS UNIX System Services because the user ID associated with *hzsproc* is not defined to RACF to use z/OS UNIX System Services.

Set up the UID/GIDs to use the kernel services by setting up an OMVS segment.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** Verify that the user ID associated with *hzsproc* is defined to RACF to use z/OS UNIX System Services.

IBM SUGGESTION: *hzsproc* should be defined as a super user.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** For additional information on providing user permissions and setting up OMVS segments, see *z/OS UNIX System Services Planning*.

**Automation:** N/A

**Detecting Module:** BPXHCFL2,BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH029I** **In BPXPRMxx, SYSPLEX(NO) is being used. *check\_name* is cannot run in the current environment.**

**Explanation:** *check\_name* can only run in a shared file system environment.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

**Detecting Module:** BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

**BPXH030E** **Automount delay error detected for configuration**

*configname*  
of automount managed directory  
*directory*

**Explanation:** Automount delay of *configdelay* found. Delay should be at least *chkdelay*. Low automount delay times can cause the system to hang.

**System action:** The system continues processing.

## BPXH031I • BPXH034I

**Operator response:** Report this problem to the system programmer.

**System programmer response:** The automount delay should be raised. The changes will not take effect until the 'automount' command is re-issued.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System Services Planning*

**Automation:** N/A

**Detecting Module:** BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

### BPXH031I No errors were found in the automount delay configurations.

**Explanation:** All automount delay values were acceptable.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

**Detecting Module:** BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

### BPXH032E MAXFILEPROC value is too low.

**Explanation:** MAXFILEPROC value of *value found* was found. MAXFILEPROC should be at least *check value*. If MAXFILEPROC is set too low you can run out of usable file descriptors.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** MAXFILEPROC can be raised using the 'SETOMVS MAXFILEPROC=xxxx' command.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System Services Planning*

**Automation:** N/A

**Detecting Module:** BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

### BPXH033E MAXSOCKETS value for AF\_INET is too low.

**Explanation:** MAXSOCKETS value of *value found* was found. MAXSOCKETS should be at least *check value*. If MAXSOCKETS is set too low you can run out of usable sockets.

**System action:** The system continues processing.

**Operator response:** Report this problem to the system programmer.

**System programmer response:** MAXSOCKETS can be raised by creating a temporary BPXPRMTt parmlib member, and using the 'SETOMVS RESET=(tt)' command.

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** See *z/OS UNIX System Services Planning*

**Automation:** N/A

**Detecting Module:** BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

### BPXH034I The value of *value found* for MAXFILEPROC meets the minimum parameter suggestion of *check value*.

**Explanation:** MAXFILEPROC has an acceptable value.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

**Detecting Module:** BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH035I** The value of *value* found for MAXSOCKETS (AF\_INET) meets the minimum parameter suggestion of *check* value.

**Explanation:** MAXSOCKETS has an acceptable value.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

**Detecting Module:** BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH036I** The automount physical file system is not started.

**Explanation:** Cannot perform check.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

**Detecting Module:** BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH037I** The AF\_INET physical file system is not started.

**Explanation:** Cannot verify the MAXSOCKETS value because the AF\_INET physical file system has not been started.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

---

**Detecting Module:** BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXH038I** The Automount shell command has not been started.

**Explanation:** Cannot perform check.

**System action:** The system continues processing.

**Operator response:** N/A

**System programmer response:** N/A

**Problem determination:** N/A

**Source:** z/OS UNIX System Services

**Reference Documentation:** N/A

**Automation:** N/A

**Detecting Module:** BPXHCFL4

**Routing Code:** N/A

**Descriptor Code:** N/A

---

**BPXI002I** *procname* IS ALREADY ACTIVE

**Explanation:** A request to start z/OS UNIX was received. However, it is already active.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

**System action:** The system ignores the start request.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI003I** OPENMVS MUST BE STARTED AS A STARTED TASK, JOB *jobname* IGNORED

**Explanation:** The named batch job attempted to start z/OS UNIX. It must be started as a STARTED task.

In the message text:

*jobname*

The name of the batch job.

**System action:** The system ignored the request to start z/OS UNIX.

**Operator response:** Enter a START operator command to start z/OS UNIX.

## BPXI004I • BPXI007I

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXI004I *procname* INITIALIZATION COMPLETE

**Explanation:** z/OS UNIX initialization is now complete.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

**System action:** z/OS UNIX is ready for work.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPINPR

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXI005I *procname* TERMINATION IS COMPLETE

**Explanation:** z/OS UNIX processing is ending in response to a system command or as a result of a serious system problem.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

**System action:** z/OS UNIX terminates.

**Operator response:** Contact your system programmer if there are error messages accompanying this message.

**System programmer response:** No action is required if this is a normal termination of z/OS UNIX processing. If this is an error situation, see the messages associated with the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXRRTRM

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI006I** **ERROR IN PARMLIB MEMBER**  
*memname* **ON LINE** *line-number*,  
**POSITION** *position-number*. **INPUT**  
**PARAMETER VALUE IS OUT OF THE**  
**ALLOWED RANGE OF** *minimum-number*  
**TO** *maximum-number*. **A SYSTEM**  
**VALUE OF** *parm-value* **IS USED**.  
**DETECTING MODULE IS** *detmod*. **INPUT**  
**LINE:** *input-line*

**Explanation:** The system encountered an error in a parmlib member.

In the message text:

*memname*

The name of the parmlib member containing the error.

*line-number*

The number of the member line containing the error.

*position-number*

The position of the error in the line. The position number is the number of columns from the left.

*minimum-number*

The low value of the allowed range.

*maximum-number*

The high value of the allowed range.

*parm-value*

The value that the system is using for the input parameter.

*detmod*

The module that detected the error.

*input-line*

The text of the line containing the error.

**System action:** The system ignores the erroneous statement. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** Contact the system programmer.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI007I** **ERROR IN PARMLIB MEMBER**  
*memname* **ON LINE** *line-number*,  
**POSITION** *position-number*. *text*

**Explanation:** The system encountered an error in a parmlib member.

In the message text:

*memname*

The name of the parmlib member containing the error.

*line-number*

The number of the member line containing the error.

*position-number*

The position of the error in the line. The position number is the number of columns from the left.

*text*

One of the following:

**INPUT PARAMETER VALUE IS NOT NUMERIC.  
THE SYSTEM DEFAULT VALUE OF *default-value* IS USED. DETECTING MODULE IS *detmod*.  
INPUT LINE: *input-line***

The specified parameter value contains nonnumeric characters.

**INPUT PARAMETER VALUE IS INCORRECT. THE SYSTEM DEFAULT VALUE OF *default-value* IS USED. DETECTING MODULE IS *detmod*. INPUT LINE: *input-line***

The specified parameter value is incorrect or is null.

**INPUT PARAMETER MAY ONLY BE A SINGLE / OR A STRING THAT MUST NOT CONTAIN ANY SLASH OR BLANK. THE SYSTEM DEFAULT VALUE OF *default-value* IS USED. DETECTING MODULE IS *detmod*. INPUT LINE: *input-line***

The specified parameter value is incorrect because it contains slash(es) or blank(s).

*default-value*

The system default value for the erroneous parameter.

*detmod*

The module that detected the error.

*input-line*

The text of the line containing the error.

**System action:** The system ignores the erroneous parameter. The system uses the default value for this parameter. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** None.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

---

**BPXI008I    ERROR IN PARMLIB MEMBER  
*memname* ON LINE *line-number*, POSITION *position-number*. THE NUMBER OF VALUES SPECIFIED FOR THE KEYWORD *keyword* EXCEEDS THE MAXIMUM NUMBER ALLOWED.**

**Explanation:** The system encountered an error in a parmlib member.

In the message text:

*memname*  
The name of the parmlib member containing the error.

*line-number*  
The number of the member line containing the error.

*position-number*  
The position of the error in the line. The position number is the number of columns from the left.

**keyword**  
The keyword that has too many values.

**System action:** The system ignores the extra values specified and checks the rest of the parmlib member to find any other errors.

**Operator response:** Contact the system programmer.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMY1

**Routing Code:** -

**Descriptor Code:** 4

---

**BPXI009I    ERROR IN PARMLIB  
MEMBER=*memname* ON LINE *line-number*, POSITION *position-number*. INPUT KEYWORD VALUE IS INCORRECT. INPUT DATA LENGTH OF FROM *minimum-length* TO *maximum-length* CHARACTERS IS EXPECTED. DETECTING MODULE IS *detmod*. INPUT LINE: *input-line***

**Explanation:** The system encountered an error in a parmlib member. The input length of a keyword or parameter value is too long or short or null.

In the message text:

*memname*  
The name of the parmlib member containing the error.

*line-number*  
The number of the member line containing the error.

## BPXI010I • BPXI011I

### *position-number*

The position of the error in the line. The position number is the number of columns from the left.

### *minimum-length*

The minimum number of input characters expected.

### *maximum-length*

The maximum number of input characters expected.

### *detmod*

The name of the module that detected the situation.

### *input-line*

The text of the line containing the error.

**System action:** The system may ignore the erroneous statement or it may stop initialization after parsing completes. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** None.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

---

### BPXI010I    ERROR IN PARMLIB

**MEMBER=***memname* **ON LINE**  
*line-number*, **POSITION** *position-number*.  
**REQUIRED KEYWORD --** *keyword-name*  
**-- IS MISSING FROM THE** *parm-name*  
**PARAMETER. DETECTING MODULE IS**  
*detmod*. **INPUT LINE:** *input-line*

**Explanation:** The system encountered an error in a parmlib member.

In the message text:

### *memname*

The name of the parmlib member containing the error.

### *line-number*

The number of the member line containing the error.

### *position-number*

The position of the error in the line. The position number is the number of columns from the left.

### *keyword-name*

The name of the missing keyword.

### *parm-name*

The name of the parmlib parameter containing the keyword.

### *detmod*

The name of the module that detected the error.

### *input-line*

The text of the line containing the error.

**System action:** The system ignores the erroneous statement and checks the rest of the parmlib member to find any other errors.

**Operator response:** None.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

---

**BPXI011I    ERROR IN PARMLIB**  
**MEMBER=***memname* **ON LINE**  
*line-number*, **POSITION** *position-number*.  
**KEYWORDS** *keyword-name1* **AND**  
*keyword-name2* **ARE MUTUALLY**  
**EXCLUSIVE FOR THE** *parm-name*  
**PARAMETER. ONLY ONE OF THE**  
**KEYWORDS CAN BE SPECIFIED, NOT**  
**BOTH. DETECTING MODULE IS**  
*detmod*. **INPUT LINE:** *input-line*

**Explanation:** The system encountered an error in a parmlib member.

In the message text:

### *memname*

The name of the parmlib member containing the error.

### *line-number*

The number of the member line containing the error.

### *position-number*

The position of the error in the line. The position number is the number of columns from the left.

### *keyword-name1*

The name of the first keyword.

### *keyword-name2*

The name of the second keyword.

### *parm-name*

The name of the parmlib parameter containing the keyword.

### *detmod*

The name of the module that detected the error.

### *input-line*

The text of the line containing the error.

**System action:** The system ignores the erroneous statement and checks the rest of the parmlib member to find any other errors.

**Operator response:** None.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

**BPXI012I    ERRORS IN PARMLIB  
 MEMBER=*memname*, REFER TO HARDCOPY LOG.**

**Explanation:** The system encountered errors in a parmlib member.

In the message text:

*memname*

The name of the parmlib member containing the error.

**System action:** The system wrote the error messages to the hardcopy log. Processing continues. The operator is prompted for a new OMVS= system parameter specification.

**Operator response:** None. In order to have the system complete the IPL, it is necessary to provide a valid OMVS= specification. If you know of a valid BPXPRMxx parmlib member, then specify it when prompted. If no valid BPXPRMxx members are available, then specify OMVS=DEFAULT.

**System programmer response:** Look in the hardcopy log for messages explaining the errors in the parmlib member. Correct the errors in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINPRM

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXI013I    INPUT PARAMETER FOR THE START  
 *jobname* COMMAND IS INCORRECT.  
 PARAMETER MUST BE NO MORE THAN 2 CHARACTERS. INPUT  
 PARAMETER: OMVS=*memname-suffix***

**Explanation:** The command to start z/OS UNIX specified an incorrect parmlib member name parameter, (OMVS=xx). The parameter should be no more than two characters. The two characters are appended to BPXPRM to form a name for the parmlib member.

In the message text:

*jobname*

The name of the job that started z/OS UNIX.

*memname-suffix*

The specified parmlib member name suffix with the error.

**System action:** The system does not process the START command.

**Operator response:** Start z/OS UNIX with the correct member name parameter.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINPRM

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXI014I    ERRORS FOUND IN PROCESSING  
 PARMLIB MEMBER *memname*.  
 UNEXPECTED RETURN CODE  
 *return\_code* FROM IEEMB878.**

**Explanation:** An unexpected return code occurred while the system was processing the parmlib member for z/OS UNIX during initialization.

In the message text:

*memname*

The name of the parmlib member in process

*return\_code*

The unexpected error return code from IEEMB878.

For an explanation of the code, see *z/OS MVS System Codes*.

**System action:** The system does not initialize z/OS UNIX.

**Operator response:** If the problem recurs, contact the system programmer.

**System programmer response:** Determine the cause of the error. If necessary, contact the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINPRM

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXI015I    *procname* CANNOT BE STARTED.  
 OPENMVS IS IN TERMINATION.**

**Explanation:** A request to start z/OS UNIX is received. However, it is in the process of terminating.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

**System action:** The system ignores the start request.

## BPXI016I • BPXI019E

**Operator response:** None.

**System programmer response:** z/OS UNIX is in the process of terminating. Termination must complete before it can be restarted.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXI016I *procname IS BEGINNING TO TERMINATE*

**Explanation:** z/OS UNIX processing is beginning to terminate in response to a system command or as a result of a serious system problem.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

**System action:** z/OS UNIX terminates. Some address spaces that are using z/OS UNIX may experience abends; this is normal.

**Operator response:** None.

**System programmer response:** No action is required if this is a normal ending of z/OS UNIX processing. If this is an error, see the messages associated with the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXI017I THE /ETC/INIT PROCESS COULD NOT BE INITIATED. *system\_call RETURN CODE return\_code REASON CODE reason\_code*

**Explanation:** The system encountered an error while creating the process for */etc/init* or */usr/sbin/init*.

In the message text:

*system\_call*

The callable service that failed.

*return\_code*

The failure return code.

*reason\_code*

The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the process for */etc/init* or */usr/sbin/init*.

**Operator response:** Contact the system programmer.

**System programmer response:** Examine the return and reason code for the service that ended in error to determine the reason for the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPINPR

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXI018I THE /ETC/INIT PROCESS ENDED IN ERROR, EXIT STATUS *exit\_status*

**Explanation:** The */etc/init* or */usr/sbin/init* process encountered an error.

In the message text:

*exit\_status*

The exit status for the */etc/init* or */usr/sbin/init* process. See *z/OS UNIX System Services Messages and Codes* for */etc/init* exit status codes.

**System action:** The system continues normally.

**Operator response:** None.

**System programmer response:** Examine the exit status displayed in the message to determine the reason the */etc/init* or */usr/sbin/init* process ended in error. See *z/OS UNIX System Services Messages and Codes* for information on exit status values.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPINPR

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXI019E *procname DETECTED A SEVERE INTERNAL ERROR THAT WILL REQUIRE A RE-IPL TO CORRECT*

**Explanation:** z/OS UNIX processing encountered a server internal error, and the system needs a re-IPL.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

**System action:** z/OS UNIX takes an EC6-xxxx0407 abend to allow a dump to be captured of the problem.

**Operator response:** Capture the dump for the EC6-xxxx0407 abend and contact the IBM Support Center.

**System programmer response:** Quiesce your system workload and re-IPL at the earliest possible time.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRIT

**Routing Code:** 1,10

| **Descriptor Code:** 11

---

**BPXI019I    *procname IS TERMINATING DUE TO AN  
ERROR IN A KERNEL FUNCTION***

**Explanation:** z/OS UNIX processing is beginning to terminate in response to an error in one of its functions.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

**System action:** z/OS UNIX terminates.

**Operator response:** None.

**System programmer response:** See the error messages associated with the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI020I    *procname IS TERMINATING BECAUSE  
THE INIT PROCESS (PID = 1) HAS  
ENDED***

**Explanation:** z/OS UNIX processing is beginning to terminate, because the initialization process has terminated.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

**System action:** z/OS UNIX terminates.

**Operator response:** None.

**System programmer response:** See the error messages associated with the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI021I    *AN ERROR OCCURRED WHILE  
SEARCHING FOR SYSTEM MODULE =  
*modulename*. UNEXPECTED RETURN  
CODE *return\_code* FROM CSVQUERY.***

**Explanation:** The system encountered an error while attempting to locate the identified system module during z/OS UNIX initialization.

In the message text:

*modulename*

The name of the missing system module

*return\_code*

The unexpected error return code from CSVQUERY. For an explanation of the return code, see the description of the CSVQUERY macro in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*.

**System action:** The system ends the z/OS UNIX initialization.

**Operator response:** Contact the system programmer.

**System programmer response:** The missing module must reside in SYS1.LPALIB. Determine why the identified module cannot be located in SYS1.LPALIB. If necessary, contact the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI022I    ***ERROR IN PARMLIB MEMBER  
memname ON LINE line-number,  
POSITION position-number. text*****

**Explanation:** The system encountered an error in a parmlib member.

In the message text:

*memname*

The name of the parmlib member containing the error.

*line-number*

The number of the member line containing the error.

*position-number*

The position of the error in the line. The position number is the number of columns from the left.

**INPUT PARAMETER VALUE IS NOT NUMERIC. THE  
VALUE IS IGNORED.**

The specified parameter value contains nonnumeric characters.

**INPUT PARAMETER VALUE IS INCORRECT. THE  
VALUE IS IGNORED.**

The specified parameter value is incorrect or is null.

**System action:** The system ignores the erroneous parameter. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** None.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

---

<b>BPXI023I</b>	<b>ERROR IN PARMLIB MEMBER</b> <b>memname ON LINE</b> <i>line-number</i> , <b>POSITION</b> <i>position-number</i> . <b>INPUT</b> <b>PARAMETER VALUE IS OUT OF THE</b> <b>ALLOWED RANGE OF</b> <i>minimum-number</i> <b>TO</b> <i>maximum-number</i> . <b>THE VALUE IS</b> <b>IGNORED.</b>
-----------------	---

**Explanation:** The system encountered an error in a parmlib member.

In the message text:

*memname*

The name of the parmlib member containing the error.

*line-number*

The number of the member line containing the error.

*position-number*

The position of the error in the line. The position number is the number of columns from the left.

*minimum-number*

The low value of the allowed range.

*maximum-number*

The high value of the allowed range.

**System action:** The system ignores the erroneous statement. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** Contact the system programmer.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

---

<b>BPXI024I</b>	<b>ERROR IN PARMLIB</b> <b>MEMBER=</b> <i>memname</i> <b>ON LINE</b> <i>line-number</i> , <b>POSITION</b> <i>position-number</i> . <b>INPUT KEYWORD VALUE IS</b> <b>INCORRECT. THE FIRST CHARACTER</b> <b>MUST BE ALPHABETIC.</b>
-----------------	--

**Explanation:** The system encountered an error in a parmlib member. The first character of the keyword value was not alphabetic.

In the message text:

*memname*

The name of the parmlib member containing the error.

*line-number*

The number of the member line containing the error.

*position-number*

The position of the error in the line. The position number is the number of columns from the left.

**System action:** The system stops initialization after parsing completes. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** None.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

---

<b>BPXI025I</b>	<b>ERROR IN PARMLIB</b> <b>MEMBER=</b> <i>memname</i> <b>ON LINE</b> <i>line-number</i> . <b>PARTITIONED DATASET IS</b> <b>INCORRECT. REASON:</b> <i>text</i>
-----------------	--

**Explanation:** The system encountered an error in a parmlib member. The input length of a keyword or parameter partitioned dataset was incorrect.

In the message text:

*memname*

The name of the parmlib member containing the error.

*line-number*

The number of the member line containing the error.

*text*

One of the following:

**MEMBER LENGTH IS NOT 1-8. DETECTING MODULE IS** *detmod*. **INPUT LINE:** *input-line*

The member length is not 1-8.

**INVALID CHARACTER DETECTED IN MEMBER NAME. DETECTING MODULE IS** *detmod*. **INPUT LINE:** *input-line*

An invalid character was detected in the member name.

**FIRST CHARACTER IN MEMBER NAME NOT VALID. DETECTING MODULE IS** *detmod*. **INPUT LINE:** *input-line*

The first character in the member name is not valid.

**INVALID CHARACTER DETECTED IN DATASET NAME. DETECTING MODULE IS** *detmod*. **INPUT LINE:** *input-line*

An invalid character was detected in the dataset name.

**FIRST CHARACTER IN DATASET NAME NOT VALID. DETECTING MODULE IS *detmod*. INPUT LINE: *input-line***

The first character in the dataset name is not valid.

**FIRST CHARACTER IN A DATASET SEGMENT NOT VALID. DETECTING MODULE IS *detmod*. INPUT LINE: *input-line***

The first character in a dataset segment is not valid.

**A DATASET SEGMENT LENGTH IS NOT 1-8. DETECTING MODULE IS *detmod*. INPUT LINE: *input-line***

A dataset segment length is not 1-8.

**DATASET NAME LENGTH IS NOT 1-44. DETECTING MODULE IS *detmod*. INPUT LINE: *input-line***

The dataset name length is not 1-44.

**MISSING RIGHT PARENTHESIS. DETECTING MODULE IS *detmod*. INPUT LINE: *input-line***

The partition dataset name is missing a right parenthesis.

*detmod*

The name of the module that detected the situation.

*input-line*

The text of the line containing the error.

**System action:** The system may ignore the erroneous statement or it may stop initialization after parsing completes. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** None.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMY1

**Routing Code:** -

**Descriptor Code:** 4

---

**BPXI026I THE ETCINIT JOB COULD NOT BE STARTED. *system\_call* RETURN CODE *return\_code* REASON CODE *reason\_code***

**Explanation:** The system encountered an error while creating the process for /etc/init or /usr/sbin/init.

In the message text:

*system\_call*

The callable service that failed.

*return\_code*

The failure return code.

*reason\_code*

The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the process for /etc/init or /usr/sbin/init.

**Operator response:** Contact the system programmer.

**System programmer response:** Examine the return and reason code for the service that ended in error to determine the reason for the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPINPR

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI027I THE ETCINIT JOB ENDED IN ERROR, EXIT STATUS *exit\_status***

**Explanation:** The /etc/init or /usr/sbin/init process encountered an error.

In the message text:

*exit\_status*

The exit status for the /etc/init or /usr/sbin/init process. See *z/OS UNIX System Services Messages and Codes* for /etc/init exit status codes.

**System action:** The system continues normally.

**Operator response:** None.

**System programmer response:** Examine the exit status displayed in the message to determine the reason the /etc/init or /usr/sbin/init process ended in error. See *z/OS UNIX System Services Messages and Codes* for information on exit status values.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPINPR

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI028E UNIX SYSTEM SERVICES ARE NOT AVAILABLE.**

**Explanation:** z/OS UNIX processing has ended as a result of a serious system problem.

**System action:** The system will continue, but z/OS UNIX services will not be functional.

**Operator response:** Contact your system programmer. After the system programmer fixes the problem, reIPL the system to regain z/OS UNIX services.

## BPXI029I • BPXI032E

**System programmer response:** Correct the conditions that caused the failure. Ask the operator to reIPL the system.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXRRTRM

**Routing Code:** 1

**Descriptor Code:** 11

---

### BPXI029I AN OMVS= PARMLIB MEMBER WAS NOT FOUND OR IS IN ERROR.

**Explanation:** z/OS UNIX parmlib parsing has encountered one of the following problems :

- There was a syntax error in one of the specified parmlib members
- A specified parmlib member does not exist.
- The operator hit Enter without specifying a parmlib member when replying to message IEA341I, which directs OMVS to come up in DEFAULT(MINIMUM) mode.

Once the system is IPLed, check the hardcopy log for additional information.

**System action:** The system prompts for a new OMVS= parmlib specification.

**Operator response:** Specify a new OMVS= parmlib specification or take the system default by specifying OMVS=DEFAULT. Hitting enter at the prompt without specifying a value also causes the system to take the default (OMVS=DEFAULT).

**System programmer response:** Correct the parmlib member that caused the failure. Ask the operator to reIPL the system.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINRIM

**Routing Code:** 1,2,10

**Descriptor Code:** 12

---

### BPXI030I THE OMVS= PARAMETER WAS FOUND TO HAVE A SYNTAX ERROR.

**Explanation:** z/OS UNIX parmlib parsing has encountered a syntax error in the OMVS= parmlib parameter.

**System action:** The system prompts for a new OMVS= parmlib specification.

**Operator response:** Specify a new OMVS= parmlib specification or take the system default by specifying OMVS=DEFAULT.

**System programmer response:** Correct the OMVS= parmlib parameter in the IEASYSPxx member used to IPL the system.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINRIM

**Routing Code:** 1,2,10

**Descriptor Code:** 12

---

### BPXI031E BPXOINIT FAILED TO INITIALIZE. RETURN CODE *return\_code* REASON CODE *reason\_code*

**Explanation:** The system encountered an error while initializing the BPXOINIT process.

In the message text:

*return\_code*  
The failure return code.

*reason\_code*  
The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** OMVS will fail to initialize.

**Operator response:** Contact the system programmer.

**System programmer response:** Examine the return and reason code for why the BPXOINIT process could not be initialized. Once the error is corrected the system must be re-IPLed to get OMVS started.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPINPR

**Routing Code:** 1

**Descriptor Code:** 1

---

### BPXI032E FORK SERVICE HAS BEEN SHUTDOWN SUCCESSFULLY. ISSUE F BPXOINIT,RESTART = FORKS TO RESTART FORK SERVICE.

**Explanation:** This message is in response to a MODIFY BPXOINIT, SHUTDOWN = FORKS system command and indicates that the SHUTDOWN of FORKS was successful.

**System action:** All forked processes are terminated. Any new attempts to FORK will be suspended until a MODIFY BPXOINIT, RESTART = FORKS has been requested.

**Operator response:** Perform any tasks that required the FORKS to be suspended, such as recycling JES2. Then issue MODIFY BPXOINIT, RESTART = FORKS to restore FORKS service.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINSHU

**Routing Code:** 1,10

**Descriptor Code:** 11

---

**BPXI033E FORK SERVICE SHUTDOWN HAS FAILED. ISSUE F BPXOINIT,RESTART = FORKS TO RESTART FORK SERVICE; OR RE-IPL.**

**Explanation:** This message is in response to a MODIFY BPXOINIT,SHUTDOWN = FORKS system command and indicates that the SHUTDOWN of FORKS could not terminate all FORKed processes.

**System action:** An attempt was made to terminate all FORKed processes. Not all FORKed processes were terminated. Any new attempts to FORK will be suspended until a MODIFY BPXOINIT,RESTART = FORKS has been requested.

**Operator response:** Perform D OMVA,A = All to determine which FORKed processes must be canceled by the operator.

**System programmer response:** Try to determine why all FORKed processes were not terminated. If cause cannot be found, have operator either issue a MODIFY BPXOINIT,RESTART = FORKS to restore FORK service, or schedule a re-IPL of the system resources that prompted the shutdown of the FORK service.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINSHU

**Routing Code:** 1,10

**Descriptor Code:** 11

---

**BPXI034I BPXOINIT MUST BE STARTED BY OMVS INITIALIZATION, STARTED PROC *procname* IGNORED.**

**Explanation:** The z/OS UNIX initialization process (BPXOINIT) must be started by the OMVS kernel. Do not use the START operator command to start BPXOINIT.

In the message text:

*procname*

The named proc attempted to start the z/OS UNIX initial process. It must be started by the system.

**System action:** The system ignored the request to start the z/OS UNIX initial process. The UNIX initial process is started by the system, do not use the START operator command to start it.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPINPR

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI035E INITIAL PROCESS USERID NOT UID = 0. CHANGE TO UID = 0 AND RE-IPL.**

**Explanation:** The userid associated with system procedure, BPXOINIT, must have UID=0 in the OMVS segment in the security database.

**System action:** z/OS UNIX will fail to initialize.

**Operator response:** Contact the system programmer.

**System programmer response:** Change the userid or the uid of the userid associated with system process BPXOINIT to have UID=0 and then have the operator re-IPL to recover z/OS UNIX services. See *z/OS UNIX System Services Planning* for details.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPINPR

**Routing Code:** 1

**Descriptor Code:** 11

---

**BPXI036E UNIX SYSTEM SERVICES ARE NOT AVAILABLE.**

**Explanation:** z/OS UNIX processing has ended as a result of a serious system problem.

**System action:** The system will continue, but z/OS UNIX will not be functional.

**Operator response:** Contact the system programmer. After the system programmer fixes the problem, reIPL the system to regain z/OS UNIX.

**System programmer response:** Correct the conditions that caused the failure. Ask the operator to reIPL the system.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXRRTRM

**Routing Code:** 1

**Descriptor Code:** 11

---

**BPXI037I PARMLIB OPTIONS IGNORED WHILE PROCESSING PARMLIB MEMBER = *memname* *settype***

**Explanation:** The parmlib option should be removed from the parmlib member. Consult the documentation for additional details.

In the message text:

*memname*

The name of the parmlib member containing the ignored commands.

*settype*

One of the following:

**MAXRTYS IS OBSOLETE AND IS IGNORED.**

The MAXRTYS parmlib option is no longer supported.

**System action:** The processing of the parmlib member continues.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

---

**BPXI038I    TASK *procname* HAS ABNORMALLY ENDED. *text***

**Explanation:** z/OS UNIX task abnormally ended and cannot be recovered. The end of task routine (ETXR) failed to reattach it after a preset number of attempts.

In the message text:

*procname*

The name of the z/OS UNIX task.

*text*

One of the following:

**MEMORY MAP PROCESSING IS SUSPENDED UNTIL THE NEXT IPL.**

Indicates that z/OS UNIX memory map processing is being suspended until the next IPL.

**MODIFY BPXOINIT PROCESSING IS SUSPENDED.**

Indicates that z/OS UNIX BPXOINIT console commands are being suspended until the next IPL.

**NETWORK DISPATCHER WORKLOAD BALANCING IS SUSPENDED.**

Indicates that the z/OS UNIX network dispatcher workload balancing function is being suspended until the next IPL.

**System action:** The system will continue, the identified z/OS UNIX task has ended.

**Operator response:** None.

**System programmer response:** The identified z/OS UNIX task has ended. The function becomes unavailable until the next IPL. The system should have presented other information that identifies the cause of the task failure.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXQETXR

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI039I    SYSTEM LIMIT *limname* HAS REACHED *limperc%* OF ITS CURRENT CAPACITY OF *limtot***

**Explanation:** The z/OS UNIX System Services System Limit has reached a critical value.

In the message text:

*limname*

One of the following:

**MAXPROCSYS**

Maximum number of processes in system.

**MAXUIDS**

Maximum number of used UIDS in system.

**MAXPTYS**

Maximum number of pseudo-terminal sessions that can be active concurrently.

**MAXMMAPAREA**

Maximum number of MMAP areas in system used for memory mappings of HFS files.

**MAXSHAREPAGES**

Maximum number of system shared storage pages that can concurrently be active using the fork(), ptrace, shmat, and mmap services.

**IPCMMSGNIDS**

Maximum number of unique message queues.

**IPCSEMNIDS**

Maximum number of unique semaphore sets.

**IPCSHMNIDS**

Maximum number of unique shared memory segments.

**IPCSHMPAGES**

Maximum number of pages for shared memory segments

**SHRLIBRGNsize**

Maximum size of the system shared library region. This is where the system library modules are loaded.

**SHRLIBMAXPAGES**

Amount of data space storage pages that can be allocated for non-system shared library modules.

**IPCMMSGQBYTES**

Maximum number of bytes in a single message queue.

**IPCMMSGQNUM**

Maximum number of messages per queue.

**IPCSMMPAGES**

Maximum number of pages for a shared memory segment.

**INET MAXSOCKETS**

Maximum number of AF\_INET sockets.

**UNIX MAXSOCKETS**

Maximum number of AF\_UNIX sockets.

**INET6 MAXSOCKETS**

Maximum number of AF\_INET6 sockets.

*limperc*

The percentage value in steps:  
85%-90%-95%-100%.

*limitot*

The absolute current value.

**System action:** The system will continue, but UNIX processes might encounter problems soon.

**Operator response:** None.

**System programmer response:** Consider raising the specified value with a **SETOMVS** or **SET OMVS** command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMSLIM

**Routing Code:** 1

**Descriptor Code:** 11

---

**BPXI040I PROCESS LIMIT *limname* HAS REACHED *limperc%* OF ITS CURRENT CAPACITY OF *limitot* FOR PID=*pid* IN JOB *name* RUNNING IN ADDRESS SPACE *asid***

**Explanation:** The z/OS UNIX System Services process limit has reached a critical level.

In the message text:

*limname*

One of the following:

**MAXFILEPROC**

Maximum number of files which can be opened by one process.

**MAXPROCUSER**

Maximum number of processes for one UserID. This is unlimited for the superuser ID with UID=0. This is also unlimited for users dubbed with the default OMVS segment. (In this case, the user is dubbed due to a request to use a kernel resource, as is the case with FTP sessions.)

**MAXQUEUEDSIGS**

Maximum number of signals which can be queued for a single process by a user.

Note: Signals queued by the system are not subject to the MAXQUEUEDSIGS limit but are included in the user limit. The system uses queued signals for asyncio. When asyncio is being used then up to

2\*(MAXQUEUEDSIGS+MAXFILEPROC) signals can be queued by the system to a process.

**MAXTHREADS**

Maximum number of threads to be active concurrently for a single process.

**MAXTHREADTASKS**

Maximum number of thread tasks to be active concurrently for a single process.

**IPCSHMNSEGS**

Maximum number of shared memory segments attached per address space.

*limperc*

The percentage value in steps:  
85%-90%-95%-100%

BPXI040I is first issued when a limit reaches 85% and then in 5% increments thereafter. This value can go beyond 100% in certain circumstances. For example, processes blind dubbed with the default OMVS segment.

This value can go beyond 100% in certain circumstances. For example, processes blind dubbed with the default OMVS segment.

*limitot*

The absolute current value.

*pid* The process ID, in decimal, of the process.

*name*

The jobname of the process where limit was reached.

*asid*

The address space ID for the process.

**System action:** The process will continue, but might encounter problems soon.

**Operator response:** None.

**System programmer response:** Consider raising the specified value with a **SETOMVS PID=, <LIMITNAME>** command.

The BPXPRMxx parmlib member can be updated for a specific process limit for future IPLs. However this will have effect on the resource limit for all processes, not just the specific process.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMSLIM

**Routing Code:** 1

**Descriptor Code:** 11

---

**BPXI041I RESOURCE SHORTAGE FOR *limname* HAS BEEN RELIEVED**

**Explanation:** The resource shortage for limit *limname* has been relieved.

In the message text:

*limname*

The name of the z/OS UNIX system limit

**System action:** No action is taken.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXSLIM

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXI042I RESOURCE SHORTAGE FOR *limname* HAS BEEN RELIEVED**

**Explanation:** The z/OS UNIX limit is no longer at a critical value.

In the message text:

*limname*

One of the following:

- MAXPROCSYS
- MAXUIDS
- MAXPTYS
- MAXMMAPAREA
- MAXSHAREPAGES
- IPCMSGNIDS
- IPCSEMNIDS
- IPCSHMNIDS
- IPCSHMSPAGES
- SHRLIBRGNSIZE
- SHRLIBMAXPAGES
- IPCMSGQBYTES
- IPCMSGQMNUM
- IPCSHMMPAGES
- INET MAXSOCKETS
- UNIX MAXSOCKETS
- INET6 MAXSOCKETS

**System action:** Normal processing will continue.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMSLIM

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXI043E MOUNT TABLE LIMIT HAS REACHED *limperc*% OF ITS CURRENT CAPACITY OF *limitot***

**Explanation:** The z/OS UNIX System Services Mount Limit has reached a critical value.

In the message text:

*limperc*

The percent value when equal or greater than 85%.

*limitot*

The absolute current value.

**System action:** The system will continue, but future UNIX file system mounts will not be permitted when the limit is reached.

**Operator response:** None.

**System programmer response:** Define a larger mount table limit in an alternate couple data set and issue the SETXCF COUPLE, TYPE=BPXMCDS,ACOUPLE=(xxx,nnn) command. Dynamically make the alternate couple data set the primary by issuing the SETXCF COUPLE,TYPE=BPXMCDS,PSWITCH command. Afterwards, define a new alternate couple data set and then issue the SETXCF TYPE=BPXMCDS,ACOUPLE=(xxx,nnn) command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFSMNT

**Routing Code:** 1

**Descriptor Code:** 11

---

**BPXI044I RESOURCE SHORTAGE FOR MOUNT TABLE HAS BEEN RELIEVED.**

**Explanation:** The z/OS UNIX System Services Mount Table limit is not in the range of a critical value anymore.

**System action:** New mounts will be accepted.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTXRXA

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXI045I THE PRIMARY CDS SUPPORTS A LIMIT OF *limitot* MOUNTS AND A LIMIT OF *bufftot* AUTOMOUNT RULES.**

**Explanation:** Information about couple data values after a SETXCF COUPLE,TYPE=BPXMCDS has occurred.

In the message text:

*limitot*

The absolute current value.

*bufftot*

The absolute current value.

**System action:** The system will use these limits.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFTCLN

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXI046I AN ERROR OCCURRED INITIALIZING THE COUPLE DATA SET AFTER PSWITCH.**

**Explanation:** THE CDS switch has occurred but a z/OS UNIX System Services was not able to use these user-defined limits because of a failure to read or write the couple data set.

**System action:** The system will use the previous user-defined values.

**Operator response:** None.

**System programmer response:** Redefine an alternate couple data set and issue the SETXCF COUPLE, TYPE=BPXMCDS,ACOUPLE=(xxx,nnn) command. Dynamically make the alternate couple data set the primary by issuing the SETXCF COUPLE,TYPE=BPXMCDS,PSWITCH command. If the problem recurs, contact the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFTCLN

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXI047I ERROR IN PARMLIB MEMBER *memname* ON LINE *line-number*, POSITION *position-number*. AT LEAST ONE SYSNAME MUST BE SPECIFIED ON THE AUTOMOVE SYSTEM LIST.**

**Explanation:** The system encountered an error in a parmlib member. The AUTOMOVE keyword followed by a system list requires an indicator and at least one SYSNAME.

In the message text:

*memname*

The name of the parmlib member containing the error.

*line-number*

The number of the member line containing the error.

*position-number*

The position of the error in the line. The position number is the number of columns from the left.

**System action:** The system ignores this parameter and continues to check the rest of the parmlib member to find any other errors.

**Operator response:** Notify the system programmer.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMU1

**Routing Code:** -

**Descriptor Code:** 4

**BPXI050I THE PRIMARY CDS SUPPORTS A LIMIT OF *mountval* MOUNTS AND A LIMIT OF *amtrules* AUTOMOUNT RULES. THE VALUE OF DISTBRLM IS *distbrlm*.THE CDS VERSION IS *cdsver*.**

**Explanation:** Information about couple data values after a SETXCF COUPLE,PSWITCH,TYPE=BPXMCDS has occurred.

In the message text:

*mountval*

The current value of the MOUNTS parameter.

*amtrules*

The current value of the AMTRULES parameter.

*distbrlm*

The current value of the DISTBRLM parameter.

*cdsver*

The CDS version as defined by the format exit routine.

**System action:** The system will use these limits.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXFTCLN

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXI055I *procname* SHUTDOWN REQUEST ACCEPTED**

**Explanation:** z/OS UNIX System Services processing is beginning to shutdown in response to a system command.

## BPXI056E • BPXI059I

In the message text:

*procname*

The name of the z/OS UNIX System Services cataloged procedure.

**System action:** z/OS UNIX System Services shuts down. Some address spaces that are using z/OS UNIX System Services may experience abends; this is normal.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 11

**Descriptor Code:** 1

---

### BPXI056E *procname* SHUTDOWN REQUEST HAS COMPLETED SUCCESSFULLY

**Explanation:** z/OS UNIX System Services processing has completed shutdown in response to a system command.

In the message text:

*procname*

The name of the z/OS UNIX System Services cataloged procedure.

**System action:** z/OS UNIX System Services shuts down. Some address spaces that are using z/OS UNIX System Services may experience abends; this is normal.

**Operator response:** None.

**System programmer response:** z/OS UNIX System Services can now be restarted by issuing the F OMVS,RESTART command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 11

**Descriptor Code:** 1

---

### BPXI057I *procname* SHUTDOWN REQUEST REJECTED

**Explanation:** F OMVS,SHUTDOWN rejected.

In the message text:

*procname*

The name of the z/OS UNIX System Services cataloged procedure.

**System action:** F OMVS,SHUTDOWN processing fails.

**Operator response:** None.

**System programmer response:** See additional messages for the reason for the request being rejected.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXI058I *procname* RESTART REQUEST ACCEPTED

**Explanation:** z/OS UNIX System Services processing is beginning to restart in response to a system command F OMVS,RESTART.

In the message text:

*procname*

The name of the z/OS UNIX System Services cataloged procedure.

**System action:** z/OS UNIX System Services restarts. Reinitialization occurs for the z/OS UNIX System Services environment.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 11

**Descriptor Code:** 1

---

### BPXI059I *procname* RESTART REQUEST REJECTED

**Explanation:** z/OS UNIX System Services restart processing cannot proceed because z/OS UNIX System Services has not been shutdown.

In the message text:

*procname*

The name of the z/OS UNIX System Services cataloged procedure.

**System action:** F OMVS,RESTART fails.

**Operator response:** None.

**System programmer response:** z/OS UNIX System Services must be shutdown before a restart can be processed.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI060I    *jobname* RUNNING IN ADDRESS  
SPACE *asid* IS BLOCKING SHUTDOWN  
OF OMVS**

**Explanation:** z/OS UNIX System Services shutdown processing cannot proceed because the referenced job has requested to block shutdown.

In the message text:

*jobname*

The name of the JOB blocking z/OS UNIX System Services shutdown processing.

*asid*

The address space ID for the JOB.

**System action:** F OMVS,SHUTDOWN is delayed.

**Operator response:** None.

**System programmer response:** In order for the z/OS UNIX System Services shutdown to continue, the job identified in this message must first be shutdown.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXQRSDS

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXI061E    *procname* SHUTDOWN REQUEST  
ABORTED**

**Explanation:** F OMVS,SHUTDOWN failed.

In the message text:

*procname*

The name of the z/OS UNIX System Services cataloged procedure.

**System action:** F OMVS,SHUTDOWN processing fails.

**Operator response:** None.

**System programmer response:** See additional messages for the exact reason for failure.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 11

**Descriptor Code:** 1

---

**BPXI062I    *jobname* RUNNING IN ADDRESS  
SPACE *asid* IS PREVENTING THE  
SHUTDOWN OF OMVS FROM  
COMPLETING**

**Explanation:** z/OS UNIX System Services shutdown processing cannot proceed because the referenced job is not ending. The job is likely in a hung state.

In the message text:

*jobname*

The name of the JOB blocking z/OS UNIX System Services shutdown processing.

*asid*

The address space ID for the JOB.

**System action:** F OMVS,SHUTDOWN fails.

**Operator response:** None.

**System programmer response:** In order for the z/OS UNIX System Services shutdown to continue, the job identified in this message must first be shutdown.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXQRSDS

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXI063I    *procname* MODIFY COMMAND  
REJECTED DUE TO SYNTAX ERROR**

**Explanation:** F OMVS command rejected due to syntax error.

In the message text:

*procname*

The name of the z/OS UNIX System Services cataloged procedure.

**System action:** F OMVS command processing fails.

**Operator response:** None.

**System programmer response:** Reissue the MODIFY command with the correct syntax.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI064E    *procname* SHUTDOWN REQUEST  
DELAYED**

**Explanation:** z/OS UNIX System Services processing has been delayed in shutdown.

In the message text:

*procname*

The name of the z/OS UNIX System Services cataloged procedure.

**System action:** z/OS UNIX System Services waits for some address spaces to end or unblock shutdown.

**Operator response:** None.

**System programmer response:** See additional BPXI060I messages for the jobs that are causing the delay of the shutdown.

## BPXI065E • BPXI068I

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 11

**Descriptor Code:** 1

---

**BPXI065E** *procname* **SHUTDOWN HAS  
ENCOUNTERED A NON-RETRYABLE  
FAILURE**

**Explanation:** z/OS UNIX System Services processing has failed severely during shutdown.

In the message text:

*procname*

The name of the z/OS UNIX System Services cataloged procedure.

**System action:** z/OS UNIX System Services waits for the system to be re-IPLed to resolve this problem.

**Operator response:** None.

**System programmer response:** Re-IPL the system to reactivate z/OS UNIX System Services.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 11

**Descriptor Code:** 1

---

**BPXI066E** *procname* **SHUTDOWN COULD NOT  
MOVE OR UNMOUNT ALL FILE  
SYSTEMS**

**Explanation:** z/OS File System move or unmount processing has failed during shutdown.

In the message text:

*procname*

The name of the z/OS UNIX System Services cataloged procedure.

**System action:** z/OS UNIX continues on to the next phase of shutdown.

**Operator response:** None.

**System programmer response:** No action is required.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 11

**Descriptor Code:** 1

---

**BPXI067E** **OMVS= PARAMETER IS SPECIFIED IN  
ERROR. RESPECIFY OMVS=  
PARAMETER**

**Explanation:** The OMVS= parameter on F OMVS,RESTART specified a parmlib member that was either not found or contained a syntax error.

**System action:** The system waits for a reply.

**Operator response:** Reply with a OMVS= parameter that specifies a valid BPXPRMxx parmlib members.

**System programmer response:** No action is required.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXI068I** *jobname* **RUNNING IN ADDRESS  
SPACE *asid* IS USING *text***

**Explanation:** z/OS UNIX System Services shutdown processing cannot proceed because the referenced job holds a resource that prevents it from continuing. The identified job has registered for permanent status and thus will not be shutdown by z/OS UNIX System Services shutdown processing. This likely indicates a problem with the identified job.

In the message text:

*jobname*

The name of the JOB blocking z/OS UNIX System Services shutdown processing.

*asid*

The address space ID for the JOB.

*text*

Where:

**SHARED LIBRARIES, PREVENTING SHUTDOWN  
OF OMVS**

Indicates that z/OS UNIX System Services shutdown processing cannot proceed because the referenced job is using shared library support.

**MAP SERVICES, PREVENTING SHUTDOWN OF  
OMVS**

Indicates that z/OS UNIX System Services shutdown processing cannot proceed because the referenced job is using \_\_map services.

**SRB SERVICES, PREVENTING SHUTDOWN OF  
OMVS**

Indicates that z/OS UNIX System Services shutdown processing cannot proceed because the referenced job is using services requiring the use of z/OS UNIX System Services SRBs.

**SHARED MEMORY SERVICES, PREVENTING SHUTDOWN OF OMVS**

Indicates that z/OS UNIX System Services shutdown processing cannot proceed because the referenced job is using shared memory services.

**SEMAPHORE SERVICES, PREVENTING SHUTDOWN OF OMVS**

Indicates that z/OS UNIX System Services shutdown processing cannot proceed because the referenced job is using semaphores.

**MEMORY MAPPED FILE SERVICES, PREVENTING SHUTDOWN OF OMVS**

Indicates that z/OS UNIX System Services shutdown processing cannot proceed because the referenced job is using memory mapped file services.

**MESSAGE QUEUES, PREVENTING SHUTDOWN OF OMVS**

Indicates that z/OS UNIX System Services shutdown processing cannot proceed because the referenced job is using message queue services.

**System action:** F OMVS,SHUTDOWN fails.

**Operator response:** None.

**System programmer response:** In order for z/OS UNIX System Services shutdown to continue, the job identified in this message must first be shutdown.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXQRSDS

**Routing Code:** 2,10

**Descriptor Code:** 4

**BPXI069I A SYSPLEX(YES) STATEMENT WAS FOUND IN BPXPRMXX, CAUSING A CONFLICT WITH THE VALUE SPECIFIED OR DEFAULTED ON THE COUPLE STATEMENT IN COUPLEXX. THE SYSTEM WILL BE INITIALIZED WITH SYSPLEX(NO).**

**Explanation:** The value specified for SYSPLEX in the COUPLE command in COUPLExx either specified or defaulted to LOCAL. The value specified on the SYSPLEX statement in BPXPRMxx specified YES, causing a conflict.

**System action:** The conflict is resolved by ignoring the SYSPLEX(YES) request and completing the IPL in SYSPLEX(NO) mode.

**Operator response:** Contact the system programmer for proper corrective action to be taken.

**System programmer response:** Correct the conflict. If SYSPLEX(YES) really was intended, an IPL will be required after correcting the COUPLExx file.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

**BPXI070E USE SETOMVS ON ANOTHER SYSTEM TO MOVE NEEDED FILE SYSTEMS, THEN REPLY WITH ANY KEY TO CONTINUE SHUTDOWN.**

**Explanation:** z/OS File System unmount processing has failed during shutdown. All file systems that are owned by this system could not be moved or unmounted.

**System action:** The system waits for a reply.

**Operator response:** Use another system in the sysplex to issue SETOMVS commands to move file systems that are owned by this system to a different system. Reply to continue with shutdown.

**System programmer response:** No action is required.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**BPXI070I ERROR IN PARMLIB MEMBER memname ON LINE line-number, POSITION position-number. INPUT PARAMETER VALUE IS OUT OF THE ALLOWED RANGE OF minimum-number TO pubname. A SYSTEM VALUE OF parm-value IS USED. DETECTING MODULE IS detmod. INPUT LINE: input-line**

**Explanation:** The system encountered an error in a parmlib member.

In the message text:

*memname*

The name of the parmlib member containing the error.

*line-number*

The number of the member line containing the error.

*position-number*

The position of the error in the line. The position number is the number of columns from the left.

*minimum-number*

The low value of the allowed range.

*pubname*

The high value of the allowed range.

*parm-value*

The value that the system is using for the input parameter.

*detmod*

The module that detected the error.

*input-line*

The text of the line containing the error.

**System action:** The system ignores the erroneous statement. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** Contact the system programmer.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXI071I    ERROR IN PARMLIB MEMBER=member  
ON LINE line-number, POSITION  
position-number. MKDIR VALUE CAN  
NOT BEGIN WITH /. input-line**

**Explanation:** The system encountered an error in a parmlib member. The MKDIR parameter value can not begin with a slash(/). In the message text:

*member*

The name of the parmlib member containing the error.

*line-number*

The parmlib member line number containing the error.

*position-number*

The position of the error in the line. The position number is the number of columns from the left.

*input-line*

The text of the line containing the error.

**System action:** The system may ignore the erroneous statement or it may stop initialization after parsing completes. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** None.

**System programmer response:** Remove the slash (/) from the beginning of the MKDIR value on the ROOT or MOUNT statement of the named BPXPRMxx parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

---

**BPXI072I    ERROR IN PARMLIB MEMBER=member  
ON LINE line-number, POSITION  
position-number. LENGTH OF  
MKDIR(mkdir-length) PLUS LENGTH OF  
MOUNTPOINT(mountpt-length) MUST BE  
LESS THAN pathmax.**

**Explanation:** The path name that resulted from the resolution of the MKDIR and MOUNTPOINT keywords exceeds the allowable length for a path name. The MOUNTPOINT value plus the MKDIR value, separated by a slash(/), must be less than the maximum of 1023 characters. In the message text:

*member*

The name of the parmlib member containing the error.

*line-number*

The parmlib member line number containing the error.

*position-number*

The position of the error in the line. The position number is the number of columns from the left.

*mkdir-length*

The length of the MKDIR operand.

*mountpt-length*

The length of the MOUNTPOINT operand.

*pathmax*

The PATH\_MAX value, which should be 1023.

**System action:** The system may ignore the erroneous statement or it may stop initialization after parsing completes. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** None.

**System programmer response:** Shorten the path name specified on the MKDIR keyword on the ROOT or MOUNT statement of the BPXPRMxx parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

---

**BPXI073I    FILE SYSTEM filesystemname IS NOT  
CATALOGED.**

**Explanation:** A catalog check for the the named data set failed. The check was performed because the SETOMVS SYNTAXCHECK console command was issued against a parmlib member. In the message text:

*filesystemname*

The file system name specified on the ROOT or MOUNT statement in the BPXPRMxx parmlib member.

**System action:** This check occurs for SETOMVS SYNTAXCHECK only. Parmlib processing continues.

**Operator response:** None.

**System programmer response:** Ensure that the data set exists and is cataloged before initializing z/OS UNIX System Services.

- | For ZFS file systems, if the specified *filesystemname* is contained in a non-HFS compatible aggregate, then this message can be ignored.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** -

**Descriptor Code:** 4

**BPXI074I LOAD LIBRARY *loadlib* IS NOT ON THE SPECIFIED VOLUME *voln***

**Explanation:** While processing SETOMVS, SET OMVS, F OMVS,RESTART, or OMVS initialization, the system encountered a SERV\_LPALIB or SERV\_LINKLIB parameter in the BPXPRMxx parmlib member which referenced a load library name that is not on the specified volume.

In the message text:

**LOAD LIBRARY *loadlib***

*loadlib* is the name of the load library that the system could not find.

**VOLUME *voln***

*voln* is the number of the volume where the system expected to find the load library.

**System action:** SETOMVS, SET OMVS, F OMVS,RESTART or OMVS Initialization processing fails.

**System programmer response:** Do one of the following, as appropriate, to correct the problem:

- If the system issued this message system during initialization or during F OMVS,RESTART command processing, respecify a corrected BPXPRMxx parmlib member.
- Correct the SERV\_LPALIB or SERV\_LINKLIB BPXPRMxx parmlib keyword in error and then retry the SETOMVS or SET OMVS command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMZ1

**Routing Code:** -

**Descriptor Code:** 4

**BPXI075E TASK *procname* HAS ABNORMALLY ENDED. *text***

**Explanation:** The z/OS UNIX task abnormally ended and cannot be recovered. The end of task exit routine (ETXR) failed to reattach it after a preset number of attempts.

In the message text:

*procname*

The name of the z/OS UNIX task.

*text*

One of the following

**MEMORY MAP PROCESSING IS SUSPENDED.**

Indicates that z/OS UNIX memory map processing is being suspended until the next IPL or shutdown.

**MODIFY BPXOINIT PROCESSING IS SUSPENDED.**

Indicates that z/OS UNIX MODIFY BPXOINIT console commands are being suspended until the next IPL or shutdown.

**NETWORK DISPATCHER WORKLOAD BALANCING IS SUSPENDED.**

Indicates that the z/OS UNIX network dispatcher workload balancing function is being suspended until the next IPL or shutdown.

**System action:** The system continues. The identified z/OS UNIX task has ended.

**Operator response:** None.

**System programmer response:** The identified z/OS UNIX task has ended. The function becomes unavailable until the next IPL. A USS shutdown/restart might be able to recover the function. The system might have presented other information that identifies the cause of the task failure.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXQETXR

**Routing Code:** 1,10

**Descriptor Code:** 11

**BPXI075I ERROR IN PARMLIB MEMBER=*member* ON LINE *nn* TOO MANY MKDIR STATEMENTS**

**Explanation:** The system encountered an error in a parmlib member. The number of supported MKDIR statements (50) for this ROOT or MOUNT have been exceeded.

In the message text:

*member*

The name of the parmlib member containing the error.

## BPXI076E • BPXI080I

| **nn** The number of the member line containing the  
| error.

| **System action:** The system stops initialization after  
| parsing completes. The system checks the rest of the  
| parmlib member to find any other errors.

| **Operator response:** None.

| **System programmer response:** Correct the error in  
| the parmlib member before using it again.

| **Source:** z/OS UNIX System Services kernel (BPX)

| **Detecting Module:** BPXIPLEX

| **Routing Code:** \_

| **Descriptor Code:** 4

---

| **BPXI076E LATCH CONTENTION EXISTS THAT  
MUST BE RESOLVED PRIOR TO  
SHUTDOWN**

| **Explanation:** F OMVS,SHUTDOWN processing could  
| not proceed due to latch contention. Shutdown  
| processing cannot proceed until this contention is  
| resolved.

| **System action:** The F OMVS,SHUTDOWN command  
fails.

| **Operator response:** Message BPXM056E was issued  
indicating that severe z/OS UNIX System Services latch  
contention exists. Determine if this message is still  
outstanding. If this message is no longer outstanding,  
then reissue the F OMVS,SHUTDOWN command. If  
this message remains outstanding, then contact the  
system programmer to determine if the contention can  
be resolved.

| **System programmer response:** Determine the nature  
of the latch contention by issuing the D GRS,C  
command. If possible, cancel or force the termination of  
the address spaces causing the contention. If the  
contention cannot be resolved, contact the IBM  
Support Center to report the problem.

| **Source:** z/OS UNIX System Services kernel (BPX)

| **Detecting Module:** BPXINIT

| **Routing Code:** 2

| **Descriptor Code:** 3

---

| **BPXI077I THE PFS NAME IS INVALID OR THE  
PFS DOES NOT SUPPORT STOPPFS  
OR IS ALREADY STOPPED**

| **Explanation:** The STOPPFS= parameter on F  
OMVS,STOPPFS specified a PFS that is either not  
active or does not support STOPPFS.

| **System action:** The F OMVS command processing  
fails.

| **Operator response:** None.

| **System programmer response:** None.

| **Source:** z/OS UNIX System Services kernel (BPX)

| **Detecting Module:** BPXINIT, BPXMIMST

| **Routing Code:** 4

| **Descriptor Code:** 2

---

| **BPXI078D STOP OF *NLSname\_type* REQUESTED,  
REPLY 'Y' TO PROCEED. ANY OTHER  
REPLY WILL CANCEL THIS STOP.**

| **Explanation:** The named file system type is about to  
be stopped.

| In the message text:

| ***NLSname\_type***

| The file system type from the FILESYSTYPE  
statement in the BPXPRMxx parmlib member.

| **System action:** The system waits for a reply. If the  
operator replies 'Y' to the prompt, processing continues.  
Any other reply ends the command.

| **Operator response:** Reply 'Y' to continue, anything  
else to terminate.

| **System programmer response:** None.

| **Source:** z/OS UNIX System Services kernel (BPX)

| **Detecting Module:** BPXINIT, BPXMIMST

| **Routing Code:** 2

| **Descriptor Code:** 2

---

| **BPXI080I INITTAB ENTRY *inittab\_entry* STARTED  
WITH ACTION *action***

| **Explanation:** The inittab entry identified by  
*inittab\_entry* was started with the specified *action*.

| In the message text:

| ***inittab\_entry***

| The identifier field (up to the first 7 characters) in  
the inittab file for the entry started.

| ***action***

| One of the following:

- **RESPAWN**
- **ONCE**
- **WAIT**
- **RESPFRK**

| **System action:** When the *action* is WAIT, the system  
waits for the process to end and then continues  
processing the inittab file. Otherwise, the system  
continues processing the inittab file.

| **Operator response:** None.

| **System programmer response:** None.

| **Source:** z/OS UNIX System Services kernel (BPX)

- | **Detecting Module:** BPXPRITR
- | **Routing Code:** 2, 10
- | **Descriptor Code:** 10

| **BPXI081I INITTAB ENTRY *inittab\_entry* NOT STARTED. *reason***

| **Explanation:** In the message text:

| *inittab\_entry*

| The identifier field (up to the first 7 characters) in the inittab file for the entry that had the error.

| *reason*

| The reasons why the process could not be started, which could be one of the following:

- **MAXIMUM ENTRY SIZE ERROR**
- **IDENTIFIER SYNTAX ERROR**
- **COMMAND PATH NOT FOUND**
- **INCORRECT RUNLEVEL**
- **INCORRECT ACTION**
- **MISSING ACTION**
- **DUPLICATE JOBNAME**
- **MISSING A FIELD**
- **NO ENTRIES FOUND**
- **IDENTIFIER MUST START IN COLUMN ONE**

| **System action:** The identified inittab entry is ignored and processing continues to the next entry in the inittab file.

| **Operator response:** None.

| **System programmer response:** To start the identified process, either manually start the process, or correct the error identified and restart OMVS to start the process with inittab.

| **Source:** z/OS UNIX System Services kernel (BPX)

| **Detecting Module:** BPXPRITR

| **Routing Code:** 2, 10

| **Descriptor Code:** 10

| **BPXI082E INITTAB ERROR - ONE OR MORE ENTRIES COULD NOT BE STARTED**

| **Explanation:** At least one entry in the inittab file had an error that prevented it from being started.

| **System action:** The other entries in the inittab file are still processed. This message is not deleted until OMVS is restarted.

| **Operator response:** None.

| **System programmer response:** See the BPXI081I error messages for the exact entries in error and actions to take. The system issues one BPXI081I message for each entry in error.

- | **Source:** z/OS UNIX System Services kernel (BPX)
- | **Detecting Module:** BPXPRITR
- | **Routing Code:** 2, 10
- | **Descriptor Code:** 11

| **BPXI083D RESPAWNABLE PROCESS *job\_name* ENDED. REPLY R TO RESTART THE PROCESS. ANYTHING ELSE TO END THE PROCESS.**

| **Explanation:** The identified process ended again within 15 minutes from the prior ending of the process.

| In the message text:

| *job\_name*

| The jobname of the process that will be respawned. If the process was started from the inittab file, *job\_name* is the identifier field specified in the inittab entry for the process.

| **System action:** None.

| **Operator response:** Notify the system programmer.

| **System programmer response:** Try to correct the problem and direct the operator to reply Y to restart the process, or reply anything else to end it.

| **Source:** z/OS UNIX System Services kernel (BPX)

| **Detecting Module:** BPXPRECP

| **Routing Code:** 2, 10

| **Descriptor Code:** 2

**BPXM001I BPXBATCH FAILED DUE TO AN INCORRECT *ddname* ALLOCATION WITH A PATH OPTION WRITE OR READ/WRITE SPECIFIED.**

| **Explanation:** You specified an incorrect allocation path option for the indicated *ddname*. BPXBATCH requires either a path option of read only or no path options for the specified *ddname*.

| In the message text:

| *ddname*

| One of the following:

| **STDENV**

| DDNAME STDENV

| **STDERR**

| DDNAME STDERR

| **STDOUT**

| DDNAME STDOUT

| **STDPARM**

| DDNAME STDPARM

| **System action:** The system ends the program.

| **Operator response:** None.

## BPXM002I • BPXM007I

**Application Programmer Response:** Change the allocation for the specified *ddname* to path option ORDONLY or remove the path option.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM002I    BPXBATCH FAILED DUE TO AN  
                  ERROR IN ALLOCATION OF *ddname*.  
                  ALLOCATION PATH OPTIONS MUST  
                  BE WRITE ONLY.**

**Explanation:** You specified an incorrect allocation path option for STDOUT or STDERR. BPXBATCH requires either a path option of WRITE or no path options for STDOUT and STDERR.

In the message text:

*ddname*

One of the following:

**STDOUT**

DDNAME STDOUT

**STDERR**

DDNAME STDERR

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Change STDOUT or STDERR allocation to path option OWRONLY, or remove the path option.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM004I    BPXBATCH FAILED BECAUSE THE  
                  CALLER OR CALLING PROGRAM DID  
                  NOT HAVE A PSW SECURITY KEY OF  
                  8.**

**Explanation:** You must call BPXBATCH from an address space with a PSW security key of 8.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Invoke BPXBATCH from an address space with a PSW security key of 8.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM006I    BPXBATCH FAILED BECAUSE EXEC  
                  (BPX1EXC) OF /BIN/LOGIN FAILED  
                  WITH RETURN CODE *return\_code*  
                  REASON CODE *reason\_code***

**Explanation:** The system encountered an error while running BPXBATCH.

In the message text:

*return\_code*

The failure return code.

*reason\_code*

The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** None.

**System programmer response:** BPXBATCH requires program /bin/login.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM007I    BPXBATCH FAILED DUE TO AN  
                  ERROR FROM OPENMVS CALLABLE  
                  SERVICE *system\_call* WITH RETURN  
                  CODE *return\_code* REASON CODE  
                  *reason\_code***

**Explanation:** BPXBATCH encountered an error while attempting to use an z/OS UNIX callable service.

In the message text:

*system\_call*

The callable service that failed.

*return\_code*

The failure return code.

*reason\_code*

The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Look up the

return code and reason code in *z/OS UNIX System Services Messages and Codes* to determine why the z/OS UNIX callable service failed.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

**BPXM008I** **BPXBATCH FAILED BECAUSE EXEC (BPX1EXC) OF THE PROGRAM NAME FAILED WITH RETURN CODE**  
**return\_code REASON CODE**  
**reason\_code.**

**Explanation:** BPXBATCH encountered an error when trying to issue an EXEC (BPX1EXC) callable service to the program name specified. An incorrect program name may have been specified.

In the message text:

*return\_code*  
The failure return code.

*reason\_code*  
The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Look up the return code and reason code to determine why the BPX1EXC callable service (EXEC) failed. Verify the program name exists in the path specified.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

**BPXM009I** **BPXBATCH FAILED BECAUSE OPEN (BPX1OPN) FOR *ddname* FAILED WITH RETURN CODE**  
*return\_code REASON CODE*  
*reason\_code*

**Explanation:** BPXBATCH encountered an error while attempting to open the specified *ddname*.

In the message text:

*ddname*  
One of the following:

**STDOUT**  
DDNAME STDOUT

**STDERR**

DDNAME STDERR

**STDENV**

DDNAME STDENV

**STDPARM**

DDNAME STDPARM

*return\_code*

The failure return code.

*reason\_code*

The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Look up the return code and reason code to determine why the z/OS UNIX callable service open (BPX1OPN) failed. Examine either the TSO/E ALLOCATE commands, JCL DD statements, or dynamic allocation that defined STDERR, STDENV, STDOUT, or STDPARM. A PATH that does not exist may have been specified or you may not have authorization to access the file. Authorization failure may have been caused by specifying OCREATE without specifying PATHMODE. If a file path was not specified, verify that the default file path **/dev/null** exists.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

**BPXM010I** **BPXBATCH FAILED BECAUSE THE PARAMETERS DID NOT START WITH SH OR PGM.**

**Explanation:** If a parameter list is used for BPXBATCH, then SH or PGM must be the first parameters specified.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** BPXBATCH requires that parameters start with SH or PGM. Reissue BPXBATCH with either no parameters or parameters that start with SH or PGM.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM011I** **BPXBATCH FAILED BECAUSE THE PARAMETERS SPECIFIED PGM WITHOUT A PROGRAM NAME AFTER PGM.**

**Explanation:** If a BPXBATCH parameter list is specified with PGM first, a program name must be specified after PGM.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** BPXBATCH requires that a program name be specified after PGM.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM012I** **BPXBATCH FAILED BECAUSE OPEN FOR *ddname* FAILED WITH RETURN CODE *return\_code***

**Explanation:** BPXBATCH encountered an error while attempting to open the specified DD which describes an MVS data set.

In the message text:

*ddname*

One of the following:

**STDENV**  
DDNAME STDENV

**STDERR**  
DDNAME STDERR

**STDOUT**  
DDNAME STDOUT

**STDPARM**  
DDNAME STDPARM

*return\_code*

The failure return code from OPEN.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Look up the return code to determine why the data set OPEN failed. Examine either the TSO/E ALLOCATE command, JCL DD statement, or dynamic allocation that defined the *ddname*. Ensure that the DCB attributes of the data set are correct.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM013I** **BPXBATCH FAILED DUE TO AN INCORRECT *text* FOR *ddname*.**

**Explanation:** BPXBATCH detected a format error for the specified DD which describes an MVS data set.

In the message text:

*text*

One of the following:

**DATA SET ORGANIZATION**

Indicates that a data set organization other than sequential or PDS was specified for the DD.

**RECORD FORMAT**

Indicates that a record format other than fixed or variable (non-spanned) was specified for the DD.

*ddname*

One of the following:

**STDENV**  
DDNAME STDENV

**STDERR**  
DDNAME STDERR

**STDOUT**  
DDNAME STDOUT

**STDPARM**  
DDNAME STDPARM

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Examine either the TSO/E ALLOCATE command, JCL DD statement, or dynamic allocation that defined the *ddname*. Ensure that the associated data set is a fixed or variable (non-spanned) sequential data set or PDS member.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM014I** **BPXBATCH FAILED BECAUSE READ (BPX1RED) FOR *ddname* FAILED WITH RETURN CODE *return\_code* REASON CODE *reason\_code***

**Explanation:** BPXBATCH encountered an error while attempting to read the specified DD.

In the message text:

*ddname*

One of the following:

**STDENV**

DDNAME STDENV

**STDPARM**

DDNAME STDPARM

*return\_code*

The failure return code.

*reason\_code*

The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Look up the return code and reason code to determine why the z/OS UNIX callable service READ (BPX1RED) failed.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

**BPXM015I BPXBATCH FAILED BECAUSE RETURN CODE *return\_code* WAS RECEIVED DURING AN ATTEMPT TO OBTAIN STORAGE FOR A BUFFER.**

**Explanation:** BPXBATCH made a request to obtain storage. The request failed for the reason identified by the return code.

In the message text:

*return\_code*

The return code received when storage was requested.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** If the problem persists, increase the region size for BPXBATCH. This may also indicate that an excessively large environment variable file is specified by STDENV or STDPARM. If this is the case, try to reduce the size of the environment variable file.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

**BPXM016I BPXBATCH FAILED BECAUSE AN MVS PDS WITH NO MEMBER NAME WAS SPECIFIED FOR STDENV.**

**Explanation:** BPXBATCH cannot use STDENV, because it specifies an MVS PDS with no member name.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Examine either the TSO/E ALLOCATE command, JCL DD statement, or dynamic allocation that defined STDENV. Ensure that a member name is specified for the associated PDS.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

**BPXM017I BPXBATCH FAILED BECAUSE THE PATH SPECIFIED FOR *ddname* IS A DIRECTORY.**

**Explanation:** BPXBATCH cannot use the specified DD, because the path it specifies is a directory instead of a text file.

In the message text:

*ddname*

One of the following:

**STDENV**

DDNAME STDENV

**STDPARM**

DDNAME STDPARM

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Examine either the TSO/E ALLOCATE command, JCL DD statement, or dynamic allocation that defined the specified DD. Ensure that the path name specifies a text file and not a directory.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM018I    BPXBATCH FAILED BECAUSE SPAWN  
(BPX1SPN) OF /BIN/LOGIN FAILED  
WITH RETURN CODE *return\_code*  
REASON CODE *reason\_code***

**Explanation:** The system encountered an error while running BPXBATCH.

In the message text:

*return\_code*  
The failure return code.

*reason\_code*  
The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Look up the return and reason code to determine why the z/OS UNIX system services callable service spawn (BPX1SPN) failed. For a SH request through either the BPXBATSL entry point or BPXBATCH with \_BPX\_SHAREAS=MUST, the user must be a superuser (UID=0). This is important because some processes, including running the shell, use programs like /bin/login that require a UID=0. Programs requiring superuser access can only run in shared address space mode if the address space itself is running UID=0.

**System programmer response:** BPXBATCH requires program /bin/login.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM019I    BPXBATCH FAILED BECAUSE SPAWN  
(BPX1SPN) OF THE PROGRAM NAME  
FAILED WITH RETURN CODE  
*return\_code* REASON CODE  
*reason\_code***

**Explanation:** BPXBATCH encountered an error when trying to issue a SPAWN (BPX1SPN) callable service to the program name specified. An incorrect program name may have been specified.

In the message text:

*return\_code*  
The failure return code.

*reason\_code*  
The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Look up the return code and reason code to determine why the BPX1SPN callable service (SPAWN) failed. Verify the program name exists in the path specified.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM020I    BPXBATCH FAILED BECAUSE  
MVSROCCLP (BPX1MPC) FAILED  
WITH RETURN CODE *return\_code*  
REASON CODE *reason\_code***

**Explanation:** The service failed to cleanup process resources.

In the message text:

*return\_code*  
The failure return code.

*reason\_code*  
The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM021E    THE TARGET OF *keyword*= IS NOT  
RECOGNIZED. THE EXPECTED  
FORMAT FOR THIS OPERAND IS:  
*keyword*=PID.TID OR *keyword*=PID  
WHERE PID IS 1-10 DIGIT DECIMAL  
PROCESS IDENTIFIER AND TID IS 1-16  
HEXADECIMAL THREAD IDENTIFIER**

**Explanation:** The argument that followed the referenced keyword was not recognized.

In the message text:

*keyword*=  
The keyword that precedes unrecognized operand.

**System action:** None.

**Operator response:** Reissue the MODIFY command

with the argument corrected.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXM022E MODIFY SYNTAX ERROR; *badparm* WAS FOUND WHERE ONE OF THE FOLLOWING WAS EXPECTED: *parms***

**Explanation:** The system found an unexpected keyword on a MODIFY command.

In the message text:

*badparm*

The unexpected parameter.

*parms*

The expected keywords.

**System action:** None.

**Operator response:** Reissue the MODIFY command with the keyword corrected.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXM023I *loginname***

**Explanation:** An application has issued a message to the operator.

In the message text:

*loginname*

Userid who issued WTO request via BPX1CCS syscall.

**System action:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM024I CONFLICTING PARAMETERS ON MODIFY COMMAND**

**Explanation:** Conflicting parameters were used on the modify command. For more information, see MODIFY command in *z/OS MVS System Commands*.

**System action:** None.

**Operator response:** Correct the parameters and reissue the MODIFY command.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM025I PID MUST BE IN THE RANGE 2 - 4294967294.**

**Explanation:** User entered a PID that is outside range of valid PIDs.

**System action:** None.

**Operator response:** Correct the PID and reissue the command.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM026I THE TARGET OF *keyword*, *identifier*, WAS NOT FOUND.**

**Explanation:** The process and/or thread specified on the MODIFY command was not found.

In the message text:

*keyword*

The keyword specified on MODIFY command.

*identifier*

Pid or pid.tid specified on MODIFY command.

**System action:** None.

**Operator response:** Reenter the command with the correct pid or pid.tid. Process and thread identifiers can be displayed via the DISPLAY OMVS command.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM027I COMMAND ACCEPTED.**

**Explanation:** The command was accepted.

**System action:** System will initiate the requested action.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM028I STOP REQUEST WAS IGNORED BY name.**

**Explanation:** A stop request was received by a process that OMVS needs to continue running. Therefore the stop request was ignored.

In the message text:

*name*

jobname of the process where the STOP was attempted.

**System action:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRILIS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM029I APPL= KEYWORD WAS IGNORED BY name.**

**Explanation:** A MODIFY command with the APPL= keyword was received by a process that did not expect it. The command was ignored.

In the message text:

*name*

jobname of the process on MODIFY command.

**System action:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRILIS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM030I ERROR PROCESSING THE USERIDALIASTABLE - aliasfile functionstatus return\_code REASON CODE reason\_code text**

**Explanation:** During z/OS UNIX userid/group alias table processing, an error occurred trying to access the new or changed alias file.

In the message text:

*aliasfile*

The USERIDALIASTABLE file name (up to the first 44 characters).

*functionstatus*

One of the following:

**STAT FAILED - RETURN CODE**

STAT failed against the specified file.

**OPEN FAILED - RETURN CODE**

OPEN failed against the specified file.

**READ FAILED - RETURN CODE**

READ failed against the specified file.

**LSEEK FAILED - RETURN CODE**

LSEEK failed against the specified file.

*return\_code*

The return code from the SYSCALL.

*reason\_code*

The reason code from the SYSCALL. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

*text*

One of the following:

**THE CONTENTS OF THE PREVIOUS TABLE WILL CONTINUE TO BE USED.**

**NO ALIAS TABLE IS IN USE AT THIS TIME.**

**System action:** The contents of the old table will be used. If there was a STAT error, then no table will be used.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify that the specified alias file exists and is accessible.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRUAT

**Routing Code:** 2

**Descriptor Code:** 12

---

**BPXM031I ERROR PROCESSING THE USERIDALIASTABLE - aliasfile errorfound line-number text**

**Explanation:** During z/OS UNIX userid/group alias

table processing, a syntax error was found in the specified alias file.

In the message text:

*aliasfile*

The USERIDALIASTABLE file name (up to the first 44 characters).

*errorfound*

One of the following:

**SYNTAX ERROR IN FILE - INVALID COMMENT AT LINE**

A comment line has incorrect delineators.

**SYNTAX ERROR IN FILE - INVALID TAG AT LINE**

The tag must be either :USERIDS or :GROUPS

**SYNTAX ERROR IN FILE - NAME NOT IN CORRECT COLUMN ON LINE**

MVS names start in column 1, alias names in 10.

**SYNTAX ERROR IN THE MVS USERID ON LINE**

The MVS USERID must follow standard MVS naming.

**SYNTAX ERROR IN THE MVS GROUPNAME ON LINE**

The MVS groupname must follow standard MVS naming.

**SYNTAX ERROR IN THE ALIAS USERID ON LINE**

The alias USERID must be XPG compliant.

**SYNTAX ERROR IN THE ALIAS GROUPNAME ON LINE**

The alias groupname must be XPG compliant.

*line-number*

The line number in the useridaliastable file where the error occurred.

**THE PREVIOUS ALIAS TABLE WILL CONTINUE TO BE USED**

**NO ALIAS TABLE IS IN USE AT THIS TIME.**

**System action:** The contents of the old table are used. If there was no table previously, no table is used.

**Operator response:** Contact the system programmer.

**System programmer response:** Correct the error in the alias file and then issue the SETOMVS USERIDALIASTABLE to start using the corrected alias file.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRUAT

**Routing Code:** 2

**Descriptor Code:** 12

---

**BPXM032E ERROR PROCESSING THE USERIDALIASTABLE - *text***

**Explanation:** An internal error occurred during userid/group name alias conversion processing.

In the message text:

*text*

One of the following:

**USERID ALIAS PROCESSING IS TURNED OFF.**

**USERID ALIAS PROCESSING IS SUSPENDED UNTIL THE NEXT IPL.**

**System action:** If there was an unrecoverable error, alias processing is set off and can not be used again until the next IPL. Otherwise, alias processing is set off and will not be used again until a SETOMVS USERIDALIASTABLE or SET OMVS= command is issued.

**Operator response:** Contact the system programmer.

**System programmer response:** For unrecoverable errors, contact the IBM support team. For recoverable errors, reissue the SETOMVS or SET OMVS= command for the alias file.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRUAU

**Routing Code:** 1,10

**Descriptor Code:** 11

---

**BPXM033I USERIDALIASTABLE NAME CHANGE FOR - *aliasfile* CANNOT BE PROCESSED AT THIS TIME. TRY AGAIN LATER.**

**Explanation:** A command was issued to change the alias file name while processing of a prior command to change the name is still in progress.

In the message text:

*aliasfile*

The USERIDALIASTABLE file name (up to the first 44 characters).

**System action:** The new command is ignored.

**Operator response:** Keep issuing the command until it is accepted.

**System programmer response:** None

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOTASK

**Routing Code:** 2

**Descriptor Code:** 12

---

**BPXM036I BPXAS INITIATORS SHUTDOWN.**

**Explanation:** The command was processed.

**System action:** The system has completed the requested action.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM037I BPXAS INITIATORS SHUTDOWN DELAYED.**

**Explanation:** Active initiators prevented complete shutdown.

**System action:** Shutdown will continue as the initiators complete.

**Operator response:** Verify the shutdown sequence.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM038I MODIFY BPXOINIT SHUTDOWN COMMAND REJECTED.**

**Explanation:** The modify command contained an unsupported operand.

**System action:** The command is ignored.

**Operator response:** Correct the command.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM039I MODIFY BPXOINIT RESTART COMMAND REJECTED.**

**Explanation:** The modify command contained an unsupported operand.

**System action:** Command is ignored.

**Operator response:** Correct the command.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM040I FORK SERVICE ALREADY SHUTDOWN.**

**Explanation:** This message is in response to a MODIFY BPXOINIT,SHUTDOWN = FORKS system command and indicates that the SHUTDOWN has already been performed.

**System action:** None.

**Operator response:** If required, issue MODIFY BPXOINIT,RESTART = FORKS to restart fork().

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM041I FORK SERVICE ALREADY STARTED.**

**Explanation:** This message is in response to a MODIFY BPXOINIT,RESTART = FORKS system command and indicates that the RESTART has already been performed.

**System action:** None.

**Operator response:** If required, issue MODIFY BPXOINIT,SHUTDOWN = FORKS to shutdown fork() service.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM042I FORK SERVICE RESTARTED.**

**Explanation:** This message is in response to a MODIFY BPXOINIT,RESTART = FORKS system command and indicates that the RESTART has been performed.

**System action:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2**Descriptor Code:** 4

---

**BPXM043I ERROR WITH BPXAS INITIATOR SHUTDOWN REQUEST.**

**Explanation:** This message is in response to the MODIFY BPXOINIT,RESTART = FORKS system command and indicates that the fork initiators have not been able to close immediately.

**System action:** Initiators will eventually time out and close down on their own.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM044I BPXOINIT FILESYSTEM SHUTDOWN COMPLETE**

**Explanation:** The command was executed.

**System action:** The system has completed the requested action.

**Operator response:** None.

**Application Programmer Response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM045I BPXOINIT FILESYSTEM SHUTDOWN INCOMPLETE. *notshutdown* FILESYSTEM(S) FAILED TO UNMOUNT.**

**Explanation:** This is a status message reporting that the SHUTDOWN=FILESYS was not able to shutdown all file systems.

In the message text:

*notshutdown*

The number of file systems that did not shutdown.

**System action:** The system has completed the requested action, but one or more file systems did not unmount.

**Operator response:** Try manually unmounting the filesystem(s).

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS**Routing Code:** 2
**Descriptor Code:** 4

---

**BPXM046I BPXBATCH FAILED BECAUSE EXEC (BPX1EXC) OF *program\_name* FAILED WITH RETURN CODE *return\_code* REASON CODE *reason\_code*.**

**Explanation:** BPXBATCH encountered an error when trying to issue an EXEC (BPX1EXC) callable service to the program name specified. An incorrect program name may have been specified.

In the message text:

*program\_name*

Up to the last 128 characters of the failed program name.

*return\_code*

The failure return code.

*reason\_code*

The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Look up the return code and reason code to determine why the BPX1EXC callable service (EXEC) failed. Verify the program name exists in the path specified.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM047I BPXBATCH FAILED BECAUSE SPAWN (BPX1SPN) OF *program\_name* FAILED WITH RETURN CODE *return\_code* REASON CODE *reason\_code*.**

**Explanation:** BPXBATCH encountered an error when trying to issue a spawn (BPX1SPN) callable service to the program name specified. An incorrect program name may have been specified.

In the message text:

*program\_name*

Up to the last 128 characters of the failed program name.

*return\_code*

The failure return code.

***reason\_code***

The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the program.

**Operator response:** None.

**Application Programmer Response:** Look up the return code and reason code to determine why the BPX1SPN callable service (SPAWN) failed. Verify the program name exists in the path specified.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM048I    BPXOINIT FILESYSTEM SHUTDOWN INCOMPLETE. *notshutdown* FILESYSTEM(S) ARE STILL OWNED BY THIS SYSTEM. *mounted* FILESYSTEM(S) WERE MOUNTED DURING THE SHUTDOWN PROCESS.**

**Explanation:** This is a status message reporting that the SHUTDOWN=FILESYS was not able to shutdown all file systems on this system. This can be caused by the occurrence of an unintended situation such as a local mount being performed while the shutdown was in progress.

In the message text:

***notshutdown***

The number of file systems that are still owned by this system.

***mounted***

The number of file systems that were mounted on this system while shutdown was in progress.

**System action:** The system has completed the requested action, but one or more filesystems did not unmount or get moved to another system.

**Operator response:** Try manually unmounting the file system(s) or moving the file system(s) to another system.

**Application Programmer Response:** None.

**System programmer response:** To identify those filesystem(s) that did not move or unmount, issue the following display command on the source system to observe which filesystems are still owned by this system:

D OMVS,F

If desired, reattempt individual moves by issuing the following command for each specific filesystem in question and observe the results:

SETOMVS FILESYS, FILESYSTEM=*filesystem*, SYSNAME=*sysname*

If any move fails here, message BPXO037E will qualify the result.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM049I    MODIFY PROCESSING FOR BPXOINIT FILESYSTEM SHUTDOWN FAILED. RETURN CODE=*retcode*, REASON CODE=*reason*.**

**Explanation:** A general error occurred when an attempt was made to process the file system function specified in the MODIFY command.

In the message text:

***retcode***

The return code obtained when attempting to perform the requested MODIFY function.

***reason***

The reason code obtained when attempting to perform the requested MODIFY function. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The MODIFY processing is terminated.

**Operator response:** Contact your system administrator.

**System programmer response:** Determine the cause of the error. If necessary, contact the IBM support center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** -

**Descriptor Code:** 4,8

---

**BPXM050E    ERROR PROCESSING THE AUTHPGMLIST - *text***

**Explanation:** An internal error occurred during authorized program name processing.

In the message, *text* is:

**AUTHPGMLIST PROCESSING IS TURNED OFF.  
AUTHPGMLIST PROCESSING IS SUSPENDED.**

**System action:** If there was an unrecoverable error,

authorized program processing is set off and cannot be used again until the next IPL or restart. Otherwise, authorized program processing is set off and will not be used again until a SETOMVS AUTHPGMLIST or SET OMVS = command is issued.

**Operator response:** Contact the system programmer.

**System programmer response:** For unrecoverable errors, contact the IBM support center. For recoverable errors, reissue the SETOMVS or SET OMVS = command for the authorized program list file.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRAPT

**Routing Code:** 1,10

**Descriptor Code:** 11

**BPXM051I ERROR PROCESSING THE AUTHPGMLIST – *aliasfile functionstatus return\_code REASON CODE reason\_code text***

**Explanation:** During z/OS UNIX System Services authorized program sanction list processing, an error occurred trying to access the new or changed sanction list file.

In the message text:

*aliasfile*

The AUTHPGMLIST file name (up to the first 44 characters).

*functionstatus*

One of the following:

**STAT FAILED – RETURN CODE**

STAT failed against the specified file.

**OPEN FAILED – RETURN CODE**

OPEN failed against the specified file.

**READ FAILED – RETURN CODE**

READ failed against the specified file.

**LSEEK FAILED – RETURN CODE**

LSEEK failed against the specified file.

*return\_code*

The return call from the syscall. For an explanation of the return code, see *z/OS UNIX System Services Messages and Codes*.

*reason\_code*

The reason call from the syscall. For an explanation of the reason code, see *z/OS UNIX System Services Messages and Codes*.

*text*

One of the following:

**THE CONTENTS OF THE PREVIOUS LIST(S)  
WILL CONTINUE TO BE USED.**

**NO NEW AUTHPGMLIST IS IN USE AT THIS  
TIME.**

**System action:** The contents of the old sanction list file will be used. If there was a STAT error, then no table will be used.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify that the specified sanction list file exists and is accessible.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRAPU, BPXMIMST

**Routing Code:** 2

**Descriptor Code:** 12

**BPXM052I ERROR PROCESSING THE AUTHPGMLIST – *aliasfile errorfound line-number actiontaken***

**Explanation:** During z/OS UNIX System Services authorized program sanction list processing, a syntax error was found in the specified sanction list file.

In the message text:

*aliasfile*

The AUTHPGMLIST file name (up to the first 44 characters).

*errorfound*

One of the following:

**SYNTAX ERROR IN FILE – INVALID COMMENT AT LINE**

A comment line has incorrect delineators.

**SYNTAX ERROR IN FILE – INVALID TAG AT LINE**

The tag must be either :authpgmpath, :programcontrol\_path, or :apfprogram\_name.

**SYNTAX ERROR IN FILE – EXTRA DATA ON LINE**

Extraneous characters found on line.

**SYNTAX ERROR IN FILE – ABSOLUTE PATH NAME ON LINE**

The hfs path name must follow standard MVS naming conventions.

**SYNTAX ERROR IN THE MVS PROGRAM NAME ON LINE**

The MVS program name must follow standard MVS naming conventions.

**SYNTAX ERROR IN FILE – NO TAGS/ENTRIES FOUND BY LINE**

The file contained no tags or entries with tags.

*line-number*

The line number in the authorized program sanction list file where the error occurred.

*actiontaken*

One of the following:

**THE PREVIOUS AUTHPGMLIST FILE WILL  
CONTINUE TO BE USED.**  
**NO AUTHPGMLIST FILE IS IN USE AT THIS  
TIME.**

**System action:** The contents of the old sanction list will be used. If there was no list previously, no list will be used.

**Operator response:** Contact the system programmer.

**System programmer response:** Correct the error in the list file and then issue the SETOMVS AUTHPGMLIST command to start using the corrected sanction list file.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRAPU

**Routing Code:** 2

**Descriptor Code:** 12

---

**BPXM053I AUTHPGMLIST NAME CHANGE FOR -  
aliasfile CANNOT BE PROCESSED AT  
THIS TIME. TRY AGAIN LATER.**

**Explanation:** A command was issued to change the sanction file name while processing of a prior command to change the name is still in progress.

In the message text:

*aliasfile*

The AUTHPGMLIST file name (up to the first 44 characters).

**System action:** The new command is ignored.

**Operator response:** Keep issuing the command until it is accepted.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOTASK

**Routing Code:** 2

**Descriptor Code:** 12

---

**BPXM054I FILE SYSTEM *name* FAILED TO  
operation. RET CODE = *retcode*, RSN  
CODE = *reason***

**Explanation:** During shutdown, the named file system could not be moved or unmounted.

In the message text:

*name*

The file system name specified either on a MOUNT statement in the BPXPRMxx parmlib member or on a MOUNT command.

*operation*

One of the following:

**MOVE**

A move operation failed.

**UNMOUNT**

An unmount operation failed.

*retcode*

The return code from the file system request.

*reason*

The reason code from the file system request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** None. File system shutdown processing continues on this system.

**Operator response:** Use the return code and reason code to determine the cause of the error. For failures to move, check physical connectivity or, if used, the contents of the automove system list. For unmount failures, the failing file system may contain the mount point for another file system. If necessary, contact the system programmer.

**System programmer response:** Determine the cause of the error. If necessary, contact the IBM support center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXVFPCT

**Routing Code:** 2,10

**Descriptor Code:** 12

---

**BPXM055D THIS SYSTEM WILL BE DISABLED AS  
A FILESYSTEM OWNER. REPLY 'Y' TO  
CONTINUE OR ANY OTHER KEY TO  
EXIT.**

**Explanation:** The system issues the message in response to an F BPXOINIT, SHUTDOWN=FILEOWNER command. In addition to moving and unmounting the filesystems that are owned by this system, this operation will prevent this system from becoming a filesystem owner by means of future filesystem move operations.

**System action:** The system waits for a reply.

**Operator response:** Reply "Y" if this is the desired behavior. Use a different key to abort the operation. If disabling filesystem ownership is not desired, use "f bpxoinit,shutdown=filesys" to move/unmount filesystems 'from this system.'

**System programmer response:** No action is required

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXM056E UNIX SYSTEM SERVICES LATCH CONTENTION DETECTED**

**Explanation:** The system detected a UNIX System Services latch contention situation that has existed for an excessive amount of time. As a result this task is not progressing as expected nor are the tasks waiting on the held resources.

**System action:** Processing continues, and latch contention continues until the operator or system programmer take action to relieve the latch contention situation.

**Operator response:** Notify the system programmer.

**System programmer response:** Issue the D GRS console command to gather information regarding the latch resource, latch owner(s) and latch waiter(s). If the contention persists and the owning unit(s) of work cannot be terminated through normal operations (for example, Cancel or Force commands), consider issuing a F BPXOINIT,RECOVER=LATCHES console command to resolve the contention. This command can take several minutes to resolve the latch contention, but if MVS cannot resolve the latch contention within a reasonable time interval, MVS eventually displays action message BPXM057E. If necessary, refer to that message for further action.

**Note:** If successful, the F BPXOINIT,RECOVER=LATCHES command causes the abnormal termination of user tasks holding latches, generates one or more address space dumps, and can result in the termination of an entire process. Refer to *z/OS MVS System Commands* before issuing this command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 11

**Descriptor Code:** 11

---

**BPXM057E UNIX SYSTEM SERVICES LATCH CONTENTION NOT RESOLVING**

**Explanation:** The F BPXOINIT,RECOVER=LATCHES command did not resolve UNIX System Services latch contention.

**System action:** Processing continues but requires the attention of the system programmer to eliminate the contention situation.

**Operator response:** Notify the system programmer.

**System programmer response:** Reissue the F BPXOINIT,RECOVER=LATCHES command to again attempt to resolve the contention. If the contention still persists, collect dumps, D GRS data, and all other relevant documentation and contact your IBM service representative.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 11

**Descriptor Code:** 1

---

**BPXM058I MODIFY BPXOINIT RECOVER COMMAND REJECTED**

**Explanation:** An unsupported operand was specified for the F BPXOINIT,RECOVER= command.

**System action:** The command request is rejected.

**Operator response:** Notify the system programmer.

**System programmer response:** Reissue the command using supported operands.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM059I ACTIVATE=SERVICE REQUEST FAILED, reason**

**Explanation:** The F OMVS,ACTIVATE=SERVICE command failed. In the message text, *reason* is one of the following:

- ERROR OPENING LPALIB LIBRARY
- ERROR OPENING LINKLIB LIBRARY
- ERROR LOADING MODULES
- TOO MANY SERVICE ITEMS FOUND (50 is the maximum number of service items allowed in a single activation)
- MAXIMUM NUMBER OF ACTIVATIONS (You can only have up to 50 activation sets concurrently active)
- DYNAMIC SERVICE ITEM IN ERROR
- MODULE BUILD PROBLEM FOUND
- UNEXPECTED ERROR OCCURRED
- ENVIRONMENTAL ERROR DETECTED
- INPUT PARAMETER ERROR DETECTED
- NO TARGET LIBRARIES FOUND (Neither LPA nor LINKLIB Libraries were specified on SERV\_LPALIB or SERV\_LINKLIB)
- LPALIB LIBRARY NOT APF AUTHORIZED
- LINKLIB LIBRARY NOT APF AUTHORIZED

**System action:** The F OMVS,ACTIVATE=SERVICE command ends without activating any service items.

**Operator response:** Contact the system programmer.

**System programmer response:** Correct the problem based on the *reason* displayed in the message text and the additional error messages displayed. Additional messages displayed might include BPXM064I and various IEW and IKJ error messages that describe module load or data set allocation errors.

## BPXM060I • BPXM062I

- If the *reason* text displayed is one of the following, contact the IBM Support Center for a fix for the problem:
  - UNEXPECTED ERROR OCCURRED
  - ENVIRONMENTAL ERROR DETECTED
  - INPUT PARAMETER ERROR DETECTED
- If the *reason* text displayed is MODULE BUILD PROBLEM FOUND, this indicates that the target load modules are not compatible with the current modules on the running system. Try re-running the SMP/E Build jobs for the target service items to correct this problem.
- If the *reason* text displayed is DYNAMIC SERVICE ITEM IN ERROR, look for accompanying message BPXM064I which explains the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXM060I NO DYNAMIC SERVICE ITEMS FOUND TO ACTIVATE

**Explanation:** The system could not activate any service items in response to a F OMVS,ACTIVATE=SERVICE command because it could not find any service items in the target service libraries that were eligible for dynamic activation. See dynamically activating the UNIX System Services component service items in *z/OS UNIX System Services Planning*.

**System action:** The F OMVS,ACTIVATE=SERVICE command ends without activating any service items.

**Operator response:** Contact the system programmer.

**System programmer response:** Install service eligible for dynamic activation in the target service library and retry the command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINACT

**Routing Code:** 2

**Descriptor Code:** 4

---

### BPXM061D REPLY "Y" TO PROCEED WITH ACTIVATION. ANY OTHER REPLY ENDS THE COMMAND.

**Explanation:** In response to an F OMVS,ACTIVATE=SERVICE command, this message prompts the operator to decide whether to dynamically activate the service items listed in the prior message BPXM061I.

**System action:** The system waits for a reply. If the operator answers Y to the prompt, the system dynamically activates the service items listed. For any

other reply, the F OMVS,ACTIVATE=SERVICE command ends without activating service.

**Operator response:** Before replying Y to this message, look at the list of service items to ensure that these are the service items that you intended to activate. In addition, evaluate the amount of storage that will be consumed in both ECSA and in the OMVS address space private area to make sure you have enough storage to perform the dynamic activation.

Any other reply besides Y will end the F OMVS,ACTIVATE=SERVICE command, and none of the service items will be activated.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINACT

**Routing Code:** -

**Descriptor Code:** -

---

### BPXM061I THE FOLLOWING SERVICE ITEMS WILL BE ACTIVATED *serviceitem1* *serviceitem2* ... ECSA STORAGE BYTES: *ecsabytes* AND OMVS PRIVATE STORAGE BYTES: *prvbytes* WILL BE CONSUMED FOR THIS ACTIVATION.

**Explanation:** In response to an F OMVS,ACTIVATE=SERVICE command, this message displays the service items that will be dynamically activated.

In the message text:

*serviceitemn*

The name of a service item that was activated.

*ecsabytes*

The number of bytes of ECSA storage consumed by the activation of these service items.

*prvbytes*

The number of bytes in the OMVS address space private area consumed by the activation of these service items.

**System action:** The system issues message BPXM061D.

**Operator response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINACT

**Routing Code:** -

**Descriptor Code:** -

---

### BPXM062I ACTIVATE=SERVICE REQUEST COMPLETED SUCCESSFULLY

**Explanation:** The system successfully processed a F OMVS,ACTIVATE=SERVICE command to dynamically

activate the service items listed in prior message BPXM061I.

**System action:** The service items listed in message BPXM061I are dynamically activated. The system continues processing.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

**BPXM063D REPLY "Y" TO PROCEED WITH  
DEACTIVATION. ANY OTHER REPLY  
ENDS THE COMMAND.**

**Explanation:** In response to an F OMVS,DEACTIVATE=SERVICE command, this message prompts the operator to decide whether to dynamically deactivate the service items listed in the prior message BPXM063I.

**System action:** The system waits for a reply. If the operator answers Y to the prompt, the system dynamically deactivates the service items listed. For any other reply, the F OMVS,DEACTIVATE=SERVICE command ends without deactivating service.

**Operator response:** Before replying Y to this message, look at the list of service items to ensure that these are the service items that you intended to deactivate. Any other reply will end the F OMVS,ACTIVATE=SERVICE command, and none of the service items will be deactivated.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINDEA

**Routing Code:** -

**Descriptor Code:** -

**BPXM063I THE FOLLOWING SERVICE ITEMS  
WILL BE DEACTIVATED: *serviceitem1*  
*serviceitem2* ...**

**Explanation:** In response to an F OMVS,DEACTIVATE=SERVICE command, this message displays the service items that will be dynamically deactivated.

In the message text:

*serviceitemn*

The name of the service item to be deactivated.

**System action:** The system issues accompanying message BPXM063D.

**Operator response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINDEA

**Routing Code:** -

**Descriptor Code:** -

**BPXM064I *serviceitem* CANNOT BE *action* DUE TO  
*reason***

**Explanation:** The system could not activate or deactivate the specified service items in response to the F OMVS,ACTIVATE=SERVICE or F OMVS,DEACTIVATE=SERVICE command due to the indicated reason. See dynamically activating the UNIX System Services component service items in *z/OS UNIX System Services Planning* for more information.

In the message text:

*serviceitem*

The name of the service item in error.

*action*

The action requested to dynamically activate or deactivate the maintenance of the service items, which can be one of the following:

**ACTIVATED**

The requested action is to activate the service items, and the message is in response to the F OMVS,ACTIVATE=SERVICE command.

**DEACTIVATED**

The requested action is to deactivate the service items, and the message is in response to the F OMVS,DEACTIVATE=SERVICE command.

*reason*

The reason that the service item was in error.  
*reason* is one of the following:

- DOWNLEVEL SERVICE - indicates that one or more modules in the service item are not at a high enough level to support dynamic activation on the current system.
- INCORRECT NUMBER OF PARTS - The system did not find the expected number of parts in the service item.
- SYSTEM NOT IN OMVS SHUTDOWN - z/OS UNIX System Services must be shutdown through an F OMVS,SHUTDOWN command in order to activate or deactivate this service item on the system.

**System action:** The F OMVS,ACTIVATE=SERVICE or F OMVS, DEACTIVATE=SERVICE command ends without functioning the requested actions to any service items.

**Operator response:** Correct the condition described in the message.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINACT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM065I DEACTIVATE=SERVICE REQUEST COMPLETED SUCCESSFULLY**

**Explanation:** The system successfully processed a F OMVS,DEACTIVATE=SERVICE command to dynamically deactivate the service items listed in prior message BPXM063I.

**System action:** The service items listed in message BPXM063I are dynamically deactivated. The system continues processing.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM066I NO DYNAMIC SERVICE ITEMS FOUND TO DEACTIVATE**

**Explanation:** The system could not deactivate any service items in response to a F OMVS,DEACTIVATE=SERVICE command because the system could not find any service items on the active system that were dynamically activated.

**System action:** The F OMVS,DEACTIVATE=SERVICE command ends without deactivating any service items.

**Operator response:** Contact the system programmer

**System programmer response:** Retry the command after dynamically activating eligible service items.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINIT

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM067I UNIX SYSTEM SERVICES LATCH CONTENTION RESOLVED**

**Explanation:** The F BPXOINIT,RECOVER=LATCHES request successfully resolved the latch contention.

**System action:** The system deletes (DOM) message BPXM056E and the prior latch contention is resolved.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCCS

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM068I BPXBATCH UNABLE TO ALLOCATE STORAGE FOR THE *buffertype* FAILED WITH RETURN CODE *return\_code***

**Explanation:** BPXBATCH encountered an error when trying to allocate dynamic storage for the indicated buffer.

In the message text:

*buffertype*

One of the following values:

- **PARAMETER BUFFER**
- **ARGUMENT BUFFER**

*return\_code*

The return code from the storage obtain service call that failed.

**System action:** The system ends the BPXBATCH command or job.

**Operator response:** None.

**Application Programmer Response:** If the *return\_code* displayed in the message from the storage obtain service is 4, increase the size of the region for your job and retry the running of the job or command. If the *return\_code* is greater than 4, report the error to your system programmer.

**System programmer response:** Determine why there is not enough central storage available to satisfy the request. If the cause of the problem can not be identified, contact the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM070I BPXBATCH STDPARM PROCESSING ENCOUNTERED ERRORS**

**Explanation:** The processing of the STDPARM data set encountered one or more errors. See accompanying error messages to determine the root cause of the problem.

**System action:** The system ends the BPXBATCH command or job.

**Operator response:** None.

**Application Programmer Response:** Correct the reported problem and retry the BPXBATCH job or command.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM077I BPXBATCH FAILED BECAUSE A MVS PDS OR PDSE WITH NO MEMBER WAS SPECIFIED ON *ddname***

**Explanation:** BPXBATCH cannot use the indicated data set definition DD because it specifies an MVS PDS or PDSE without a member name.

In the message text:

*ddname*

One of the following:

**STDENV**

DDNAME STDENV

**STDERR**

DDNAME STDERR

**STDOUT**

DDNAME STDOUT

**STDPARM**

DDNAME STDPARM

**System action:** The system ends the BPXBATCH command or job.

**Operator response:** None.

**Application Programmer Response:** Examine either the TSO/E ALLOCATE command, JCL DD statement, or dynamic allocation that defined the *ddname* in error. Ensure that a member name is specified for the associated PDS or PDSE.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM078I BPXBATCH FAILED BECAUSE THE STDPARM DATA SET CONTAINED GREATER THAN THE MAXIMUM SUPPORTED PARAMETER DATA**

**Explanation:** BPXBATCH encountered an STDPARM definition greater than the maximum size allowed. The maximum size is 64K (65536) and the parameter string can not be greater than this size.

**System action:** The system ends the BPXBATCH command or job.

**Operator response:** None.

**Application Programmer Response:** Reconstruct the STDPARM data set to contain fewer characters than the maximum size permitted. Rerun the BPXBATCH job or command.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM079I BPXBATCH PROCESSING IS USING THE STDPARM DD RATHER THAN *parm***

**Explanation:** BPXBATCH encountered a PARM= or STDIN DD and a STDPARM definition. The STDPARM DD overrides the use of PARM= and STDIN DD, therefore the system uses the STDPARM DD.

In the message:

*parm*

The input parameter string or the STDIN DD.

**System action:** Processing continues with the STDPARM specification.

**Operator response:** None.

**Application Programmer Response:** Remove either the PARM=, STDIN DD or the STDPARM DD from the JCL to prevent this warning message from being issued from BPXBATCH.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM080I THE RECORD SIZE OF THE *ddname* DATA SET IS SMALLER THAN A LINE OF OUTPUT, TRUNCATION HAS OCCURRED**

**Explanation:** BPXBATCH encountered one or more lines of output from the job that is larger than the record size of the output data set for the specified *ddname*. The line or lines have been truncated in the output data set.

In the messages:

*ddname*

STDOUT or STDERR.

**System action:** Processing continues within the job.

**Operator response:** None.

**Application Programmer Response:** To get all output without truncation, rerun the BPXBATCH job or command with a STDOUT or STDERR data set with a larger LRECL. Specify at least 255 for LRECL .

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

## BPXM081I • BPXM100I

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM081I ddname\_1 IS TO BE REDIRECTED TO ddname\_2**

**Explanation:** BPXBATCH encountered a problem with the output DD specified by *ddname\_1*. The data set type specified is not supported, such as DD Dummy, Terminal or SYSIN, or the specified data set can not be opened.

In these cases, BPXBATCH redirects the output for the specified DD to the location specified by *ddname\_2*.

- When the STDOUT DD is in error, the system redirects the output to /dev/null.
- When the STDERR DD is in error, the system redirects the output to STDOUT if STDOUT is valid. If STDOUT is not valid, the system redirects STDERR to /dev/null.

In the messages:

*ddname-1*  
STDOUT or STDERR.

*ddname-2*  
/dev/null or STDOUT.

**System action:** Processing continues within the job or command with the output to the specified DD being redirected to the specified location.

**Operator response:** None.

**Application Programmer Response:** If you intended to have the output for the specified DD go to the data set specified by *dd\_name1*, then correct the problem with the data set and rerun the BPXBATCH command or job.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM082I THE AUTHORIZED BPXBATCH INTERFACE DOES NOT SUPPORT THE SH KEYWORD. REQUEST IS REJECTED**

**Explanation:** BPXBATA8 or BPXBATA2 was invoked specifying the SH keyword which is not supported.

**System action:** The system ends the BPXBATCH command or job.

**Operator response:** None.

**Application Programmer Response:** Invoke

BPXBATA8 or BPXBATA2 again specifying the PGM keyword.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM083I THE AUTHORIZED BPXBATCH INTERFACE WAS INVOKED FROM AN UNSUPPORTED ENVIRONMENT. REQUEST IS REJECTED**

**Explanation:** BPXBATA8 or BPXBATA2 was invoked from an address space that was not a started task address space.

**System action:** The system ends the BPXBATCH command or job.

**Operator response:** None.

**Application Programmer Response:** Invoke BPXBATA8 or BPXBATA2 again from a started task address space.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMBATC

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXM100I THE VALUE FOR FILESYS= IS NOT RECOGNIZED. badfunct WAS FOUND WHERE ONE OF THE FOLLOWING WAS EXPECTED: parm parm parm parm parm parm parm**

**Explanation:** On the MODIFY command, the value that followed the FILESYS= keyword was not recognized.

In the message text:

*badfunct*  
The unexpected function value.

*parm*  
A valid, expected keyword value.

**System action:** None.

**Operator response:** Reissue the MODIFY command with the keyword value corrected.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM101I MODIFY SYNTAX ERROR; *badparm* WAS FOUND, BUT IS NOT VALID FOR A FILESYS OPERATION.**

**Explanation:** The specified parameter was not recognized for the MODIFY command. Only parameters relating to the specified FILESYS operation are expected.

In the message text:

*badparm*

The unexpected parameter.

**System action:** None.

**Operator response:** Reissue the MODIFY command with the parameter corrected.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM102I MODIFY SYNTAX ERROR; *requiredparm* WAS EXPECTED BUT NOT FOUND.**

**Explanation:** The indicated parameter is required for the specified FILESYS function on the MODIFY command.

In the message text:

*requiredparm*

The missing parameter.

**System action:** None.

**Operator response:** Reissue the MODIFY command with the required parameter.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM103I A FAILURE OCCURRED WHILE PROCESSING A MODIFY COMMAND FOR A FILESYS OPERATION. RETURN CODE=*retcode*, REASON CODE=*reason*.**

**Explanation:** The MODIFY command completed in error.

In the message text:

*retcode*

The return code from the Modify request.

*reason*

The reason code from the Modify request. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** None.

**Operator response:** Contact the system programmer.

**System programmer response:** Determine the cause of the error. If necessary, contact the IBM support center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM104I MODIFY SYNTAX ERROR; *badparm* DOES NOT HAVE A VALID VALUE.**

**Explanation:** The specified parameter does not have a valid value.

In the message text:

*badparm*

The parameter with an invalid value.

**System action:** None.

**Operator response:** Reissue the MODIFY command with the parameter corrected.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM105I FILESYS= DOES NOT HAVE A VALID VALUE. SPECIFY ONE OF THE FOLLOWING VALUES: *parm* *parm* *parm* *parm* *parm* *parm* *parm* *parm***

**Explanation:** On the MODIFY command, the value that followed the FILESYS= parameter was not provided.

In the message text:

*parm*

A valid keyword value.

**System action:** None.

**Operator response:** Reissue the MODIFY command with the parameter corrected.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL**Routing Code:** 2**Descriptor Code:** 5

---

**BPXM106I** **UNIX SYSTEM SERVICES WAS NOT STARTED IN SYSPLEX MODE. THE MODIFY FUNCTION CANNOT BE PERFORMED.**

**Explanation:** The FILESYS functions for the MODIFY command can only be performed if UNIX System Services is started in sysplex mode.

**System action:** The MODIFY command is ignored.

**Operator response:** Only issue this MODIFY command if UNIX System Services is started in sysplex mode.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM107I** **THE MODIFY COMMAND IS REJECTED. A PREVIOUS MODIFY COMMAND FOR A FILESYS OPERATION IS IN PROGRESS.**

**Explanation:** Only one MODIFY command for a FILESYS operation can be active, unless the OVERRIDE parameter is specified.

**System action:** The MODIFY command is rejected.

**Operator response:** Either reissue the MODIFY command after the previous MODIFY command completes, or specify the OVERRIDE parameter.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXM120D** **F BPXOINIT,FILESYS=funcname SHOULD BE USED WITH CAUTION. REPLY 'Y' TO CONTINUE. ANY OTHER REPLY TERMINATES.**

**Explanation:** The identified MODIFY command should only be used to attempt to correct problems in a sysplex when the alternative is a sysplex-wide IPL. It is potentially disruptive and should be used with caution.

In the message text:

*funcname*

The function name.

**System action:** Waits for a reply. If the operator replies Y to the prompt, processing will continue. Otherwise, it will terminate.

**Operator response:** Reply Y to continue, anything else to terminate.

**System programmer response:**

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXM121I** **MODIFY COMMAND TERMINATED AT OPERATOR REQUEST.**

**Explanation:** This message is issued when response to a prompt is to terminate a MODIFY BPXOINIT,FILESYS system command.

**System action:** The MODIFY processing is terminated.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMFIL

**Routing Code:** 2

**Descriptor Code:** 4,8

---

**BPXN001I** **UNIX SYSTEM SERVICES PARTITION CLEANUP IN PROGRESS FOR SYSTEM *sysname***

**Explanation:** XCF has reported that a member of the sysplex has been partitioned out or has gone down unexpectedly. z/OS UNIX System Services is performing recovery for the identified system.

In the message text:

*sysname*

The system that has been partitioned out or unexpectedly gone down.

**System action:** Recovery actions are taken on behalf of the down system. System processing continues.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXNXWRK

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXN002I    UNIX SYSTEM SERVICES PARTITION  
CLEANUP COMPLETE FOR SYSTEM  
sysname**

**Explanation:** Recovery processing is complete for a member of the sysplex that been partitioned out or has gone down unexpectedly.

In the message text:

*sysname*

The system that has been partitioned out or unexpectedly gone down.

**System action:** Recovery actions are now complete on behalf of the down system. System processing continues.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXNXWRK

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXO001I    hh.mm.ss DISPLAY OMVS**

**Explanation:** The following material is part of the message text:

```
procname    status          parmmembername
USER  JOBNAME ASID  PID PPID STATE  START      CT_SECS
user  jobname asid  pid ppid state shhmss   ct_secs

[LATCHWAITPID=latchwaitpid  CMD=command]
[SERVER=servername AF=activefiles MF=maxfiles TYPE=servertype]
```

In response to a DISPLAY OMVS,ASID=, DISPLAY OMVS,U=, or DISPLAY OMVS,VSERVER operator command, this message displays information about the state of z/OS UNIX and its processes. The line beginning with user appears one or more times for each process.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the */etc/init* or */usr/sbin/init* program to complete initialization.

**FORK SHUTDOWN**

FORK Service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

**SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

*parmmembername*

The parmlib member name specified on START OMVS.

*user*

The user ID of the process.

*jobname*

The job name of the process.

*asid*

The address space ID for the process or zero when states are Z or L.

*pid* The process ID, in decimal, of the process.

*ppid*

The parent process ID, in decimal, of the process.

*state*

The state of the process or of the most recently created thread in the process as follows:

**I** Process state is for a single thread process

**A** Message queue receive wait

**B** Message queue send wait

**C** Communication system kernel wait

**D** Semaphore operation wait

**E** Quiesce frozen

**F** File system kernel wait

**G** MVS Pause wait

**H** Process state is for multiple threads and *pthread\_create* was used to create one of the threads. Process state is obtained from the Initial Pthread created Task (IPT).

**I** Swapped out

## BPXO002I

<b>K</b>	Other kernel wait (for example, pause or sigsuspend)
<b>L</b>	Canceled, parent has performed wait, and still session or process group leader
<b>M</b>	Process state is for multiple threads and <code>pthread_create</code> was <b>not</b> used to create any of the multiple threads. Process state is obtained from the most recently created thread.
<b>P</b>	Ptrace kernel wait
<b>Q</b>	Quiesce termination wait
<b>R</b>	Running (not kernel wait)
<b>S</b>	Sleeping
<b>T</b>	Stopped
<b>W</b>	Waiting for child (wait or <code>waitpid</code> callable service)
<b>X</b>	Creating new process (fork callable service is running)
<b>Z</b>	Canceled and parent has <b>not</b> performed wait (Z for zombie)

*shhmms*

The time, in hours, minutes, and seconds, when the process was started.

*ct\_secs*

The total execution time for the process in seconds in the format ssssss.hhh. The value displayed is an approximate value, which may be less than a previously displayed value. When this value exceeds 11.5 days of execution time this field will overflow. When an overflow occurs the field is displayed as \*\*\*\*\*.\*\*\*

*latchwaitpid*

Either zero or the latch process ID, in decimal, for which this process is waiting.

*command*

The command that created the process truncated to 40 characters. It can be converted to uppercase using the CAPS option.

*servername*

The name of the server process. It can be converted to uppercase using the CAPS option.

*activefiles*

The number of active server file tokens.

*maxfiles*

The maximum number of active server file tokens allowed.

*servertype*

One of the following:

**FILE**

A network file server

### **LOCK**

A network lock server

### **FEXP**

A network file exporter

### **SFDS**

A shared file server

**System action:** The system continues processing.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOMAST

**Routing Code:** -

**Descriptor Code:** 5,8,9

---

## BPXO002I hh.mm.ss DISPLAY OMVS

**Explanation:** The following material is part of the message text:

*procname status parmmembername*

<b>TYPENAME</b>	<b>DEVICE</b>	<b>STATUS</b>	<b>QJOBNAME</b>	<b>QPID</b>
<i>type</i>	<i>device</i>	<i>filestatus</i>	<i>qjobname</i>	<i>qpipd</i>

**NAME=***filesysname*

**PATH=***pathname*

**MOUNT PARM=***mountparm*

In response to a DISPLAY OMVS,FILE command, this message displays information about z/OS UNIX and its file systems. The line beginning with type appears one or more times for each file system.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*status*

One of the following:

### **ACTIVE**

z/OS UNIX is currently active.

### **NOT STARTED**

z/OS UNIX was not started.

### **INITIALIZING**

z/OS UNIX is initializing.

### **TERMINATING**

z/OS UNIX is terminating.

<b>TERMINATED</b>	z/OS UNIX has terminated.		
<b>ETC/INIT WAIT</b>	z/OS UNIX is waiting for the <i>/etc/init</i> or <i>/usr/sbin/init</i> program to complete initialization.		
<i>parmmembername</i>	The parmlib member name specified on the START OMVS command.		
<i>type</i>	File system type as defined by the FILESYSTYPE statement.		
<i>device</i>	The device value to uniquely identify the device.		
<i>filestatus</i>	One of the following:		
<b>FORCE UNMOUNT</b>	An unmount with force is in progress.		
<b>DRAIN UNMOUNT</b>	A file system drain unmount is in progress.		
<b>IMMEDIATE UNMOUNT</b>	An immediate unmount is in progress.		
<b>NORMAL UNMOUNT</b>	A normal unmount is in progress.		
<b>RESET UNMOUNT</b>	An unmount was reset.		
<b>IMMEDIATE UNMOUNT ATTEMPTED</b>	An immediate unmount was attempted		
<b>ACTIVE</b>	File system is active.		
<b>QUIESCED</b>	File system is quiesced.		
<b>NOT ACTIVE</b>	File system is not active.		
<b>MOUNT IN PROGRESS</b>	File system is being mounted.		
<b>ASYNCH MOUNT IN PROGRESS</b>	File system is being mounted asynchronously.		
<i>qjobname</i>	The jobname that quiesced the file system.		
<i>qid</i>	The process ID that quiesced the file system.		
<i>filesysname</i>	The name of the file system.		
<i>pathname</i>	The name of the directory where the file system is mounted truncated to 60 characters. You can convert it to uppercase by using the CAPS option.		
<i>mountparm</i>	The parameter specified to the mount callable		
	service, truncated to 57 characters. You can convert it to uppercase by using the CAPS option.		
	<b>System action:</b> The system continues processing.		
	<b>Operator response:</b> None.		
	<b>System programmer response:</b> None.		
	<b>Source:</b> z/OS UNIX System Services kernel (BPX)		
	<b>Detecting Module:</b> BPXOMAST		
	<b>Routing Code:</b> #		
	<b>Descriptor Code:</b> 5,8,9		
<hr/>			
	<b>BPXO003I hh.mm.ss DISPLAY OMVS</b>		
	<b>Explanation:</b> The following material is part of the message text:		
	<i>procname</i>	<i>status</i>	<i>parmmembername</i>
	 [valuespecified NOT FOUND]		
	In response to a DISPLAY OMVS operator command. Also for DISPLAY OMVS,ASID=, DISPLAY OMVS,U=, or DISPLAY OMVS,VSERVER operator command when the process specified could not be found.		
	In the message text:		
	<i>hh.mm.ss</i>	The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.	
	<i>procname</i>	The name of the member in SYS1.PROCLIB used to start z/OS UNIX.	
	<i>status</i>	One of the following:	
	<b>ACTIVE</b>	z/OS UNIX is currently active.	
	<b>NOT STARTED</b>	z/OS UNIX was not started.	
	<b>INITIALIZING</b>	z/OS UNIX is initializing.	
	<b>TERMINATING</b>	z/OS UNIX is terminating.	
	<b>TERMINATED</b>	z/OS UNIX has terminated.	
	<b>ETC/INIT WAIT</b>	z/OS UNIX is waiting for the <i>/etc/init</i> or <i>/usr/sbin/init</i> program to complete initialization.	
	<b>FORK SHUTDOWN</b>	FORK Service has been shutdown.	
	<b>SHUTTING DOWN</b>	z/OS UNIX is shutting down.	

**SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

*parmmembername*

The parmlib member name specified on START OMVS.

*valuespecified*

The ASID= or U= value specified on DISPLAY OMVS.

**System action:** The system continues processing.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOMAST

**Routing Code:** -

**Descriptor Code:** 5,8,9

---

**BPXO006I    ERROR IN SETOMVS COMMAND. THE  
                bad-parameter PARAMETER VALUE IS  
                OUT OF THE ALLOWED RANGE OF  
                minimum-number TO maximum-number.**

**Explanation:** A SETOMVS command parameter value is out of range.

In the message text:

*bad-parameter*

Parameter that is out of range.

*minimum-number*

The low value of the allowed range.

*maximum-number*

The high value of the allowed range.

**System action:** The system ignores the parameter out of range, keeps the current value and continues to process the rest of the SETOMVS command.

**Operator response:** Issue a SETOMVS command with this parameter in range.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO007I    ERROR IN SETOMVS COMMAND.  
                bad-parameter PARAMETER VALUE IS  
                NOT NUMERIC.**

**Explanation:** A SETOMVS command parameter should have been a number.

In the message text:

*bad-parameter*

Parameter that is not numeric.

**System action:** The system ignores the parameter in error, keeps the current value and continues to process the rest of the SETOMVS command.

**Operator response:** Issue a SETOMVS command with this parameter corrected.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO008I    ERROR IN SETOMVS COMMAND. THE  
                NUMBER OF VALUES SPECIFIED FOR  
                THE PARAMETER *badparm* EXCEEDS  
                THE MAXIMUM NUMBER ALLOWED.**

**Explanation:** The system encountered an error in a SETOMVS command.

In the message text:

*badparm*

The parameter that has too many values.

**System action:** The system ignores the extra values specified and continues to process the rest of the command.

**Operator response:** Issue the SETOMVS command with fewer values.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMY1

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO009I    ERROR IN SETOMVS COMMAND. THE  
                LENGTH OF THE PARAMETER  
                *badparm* IS NOT IN THE ALLOWED  
                RANGE OF *minimum-number* TO  
                *maximum-number*.**

**Explanation:** The system encountered an error in a SETOMVS command. The parameter is either too small, too long or null.

In the message text:

*badparm*

The parameter with the bad length.

*minimum-number*

The low value of the allowed range.

*maximum-number*

The high value of the allowed range.

**System action:** The system ignores this parameter and continues to process the rest of the command.

**Operator response:** Reissue the SETOMVS command after correcting this parameter.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMZ1

**Routing Code:** 2

**Descriptor Code:** 5

**BPXO12I ERRORS OCCURRED IN THE PROCESSING OF THE SETOMVS COMMAND; NO VALUES WERE SET.**

**Explanation:** The system encountered one or more errors processing the SETOMVS command.

**System action:** No SETOMVS parameters were set.

**Operator response:** Reissue the SETOMVS command correcting the problems.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOTASK

**Routing Code:** 2

**Descriptor Code:** 5

**BPXO15I THE SETOMVS COMMAND WAS SUCCESSFUL.**

**Explanation:** The SETOMVS command was successful.

**System action:** SETOMVS parameters were set.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOTASK

**Routing Code:** 2

**Descriptor Code:** 5

**BPXO16I (form 1) SETOMVS SYNTAX ERROR; *badparm* WAS FOUND WHERE ONE OF THE FOLLOWING WAS EXPECTED:**

*parms*

**Routing Code:** 2

**Descriptor Code:** 5

**BPXO16I (form 2) SETOMVS SYNTAX ERROR; *badparm* WAS NOT EXPECTED**

**Explanation:** In form 1 of the message, the system found an invalid parameter value in a SETOMVS command. In form 2 of the message, the system found an unexpected parameter in a SETOMVS command.

In the message text:

***badparm***

The unexpected parameter, or the invalid parameter value.

***parms***

Up to ten of the expected parameters.

**System action:** None.

**Operator response:** Reissue the SETOMVS command with the desired parameter or the valid parameter value.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** 2

**Descriptor Code:** 5

**BPXO17I SETOMVS ERROR. LOWERING *limitname* IS CURRENTLY NOT ALLOWED. A WARNING MESSAGE FOR THIS LIMIT IS OUTSTANDING.**

**Explanation:** The system does not allow you to lower a limit, *limitname*, for which there is an outstanding warning message. For a description of the limit, refer to the BPXPRMXX sample parmlib member.

*limitname* is one of the following:

MAXPROCSYS  
MAXUIDS  
MAXPTYS  
MAXMMAPAREA  
MAXSHAREPAGES  
IPCSMSGNIDS  
IPCSEMNIDS  
IPCSHMNIDS  
IPCSHMPAGES  
SHRLIBRGNSIZE  
SHRLIBMAXPAGES  
IPCMMSGQBYTES  
IPCMMSGQNUM  
IPCSHMPAGES  
INET MAXSOCKETS  
UNIX MAXSOCKETS  
MAXFILEPROC  
MAXPROCUSER  
MAXQUEUEDSIG

MAXTHREADS  
MAXTHREADTASKS  
IPCSHMNSEGS

**System action:** The system does not change the limit value.

**Operator response:** None.

**System programmer response:** To solve the displayed problem, increase the limit value for the specified resource.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOTASK, BPXMIMST

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXO023I THE PARMLIB MEMBER *memname* CONTAINS SYNTAX ERRORS. REFER TO HARD COPY LOG FOR MESSAGES.**

**Explanation:** The system encountered errors in a parmlib member.

In the message text:

*memname*

The name of the parmlib member containing the error.

**System action:** The system wrote the error messages to the hard copy log.

**Operator response:** None.

**System programmer response:** Look in hard copy log at the previous messages explaining the errors in the parmlib member. Correct the errors in the parmlib member before using it.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINPRM

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXO024I ERROR IN SETOMVS COMMAND. THE *badparm* PARAMETER VALUE MUST BEGIN WITH AN ALPHABETIC CHARACTER.**

**Explanation:** The system encountered an error in a SETOMVS command.

In the message text:

*badparm*

The parameter that has an incorrect first character.

**System action:** The system ignores this parameter and continues to process the rest of the command.

**Operator response:** Issue the SETOMVS command with this parameter corrected.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMY1

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO025I ERROR IN SETOMVS COMMAND. *expected* WAS EXPECTED BEFORE *token*.**

**Explanation:** The system encountered an error in a SETOMVS command.

In the message text:

*expected*

The parameter that was expected.

*token*

The parameter that was in error.

**System action:** The system ignores this parameter and continues to process the rest of the command.

**Operator response:** Issue the SETOMVS command with this parameter corrected.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMY1

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO026I SETOMVS COMMAND FAILED. ISSUER DOES NOT HAVE MASTER CONSOLE AUTHORITY.**

**Explanation:** The issuer of the SETOMVS command does not have Master Console Authority.

**System action:** No SETOMVS parameters were set.

**Operator response:** Reissue the SETOMVS command from the master console.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOSETO

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO027I SETOMVS COMMAND PROCESSOR IS CURRENTLY NOT AVAILABLE.**  
**REASON CODE:** *reason\_code*

**Explanation:** The SETOMVS command processor had an unrecoverable error. No SETOMVS commands can be processed.

1. The SETOMVS initialization routine BPXOSETO could not establish addressability to the general recovery routine BPXMIPCE.
2. The SETOMVS initialization routine BPXOSETO could not establish ESTAE recovery via BPXMIPCE.
3. The SETOMVS processing routine BPXOTASK is currently not processing commands.
4. OMVS is not up at this time.
5. OMVS is not completely initialized.

In the message text:

*reason\_code*

Explains why the SETOMVS command processor is not available.

**System action:** The SETOMVS command is not processed.

**Operator response:** Contact the system programmer.

**System programmer response:** Try the command later, the processor will probably re-establish itself.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOSETO

**Routing Code:** 2

**Descriptor Code:** 5

**BPXO028I SET OMVS COMMAND PROCESSOR IS CURRENTLY NOT AVAILABLE.**

**REASON CODE:** *reason\_code*

**Explanation:** The SET OMVS command processor had an unrecoverable error. No SET OMVS commands can be processed.

1. The SET OMVS initialization routine BPXOSETX could not establish addressability to the general recovery routine BPXMIPCE.
2. The SET OMVS initialization routine BPXOSETX could not establish ESTAE recovery via BPXMIPCE.
3. The SET OMVS processing routine BPXOTASK is currently not processing commands.

In the message text:

*reason\_code*

Explains why the SET OMVS command processor is not available. The reason codes are explained in *z/OS UNIX System Services Messages and Codes*.

**System action:** The SET OMVS command is not processed.

**Operator response:** Contact the system programmer.

**System programmer response:** Try the command later, the processor will probably re-establish itself.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOSETX

**Routing Code:** 2

**Descriptor Code:** 5

**BPXO029I LIMMSG CHANGED FROM *oldvalue* TO *newvalue***

**Explanation:** The system-wide value for LIMMSG has been changed. Warning messages will now be issued using the new value.

In the message text:

*oldvalue*

The old value for LIMMSG

*newvalue*

The new value for LIMMSG

**System action:** The LIMMSG value has been changed successfully.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMU1

**Routing Code:** 2

**Descriptor Code:** 4

**BPXO030I SYNTAX ERRORS ENCOUNTERED WHILE PROCESSING PARMLIB MEMBERS ON SET OMVS COMMAND.**

**REASON:** *reason\_code*

**Explanation:** Syntax errors were found in the parmlib member(s) specified on the SET OMVS command. The correct format is xx, (xx), or (xx,yy,...).

In the message text:

*reason\_code*

Explains why the SET OMVS command was not executed. The reason codes are explained in *z/OS UNIX System Services Messages and Codes*.

**System action:** The SET OMVS command is not processed.

**Operator response:** Enter valid parmlib member suffix(es) on SET OMVS=.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOTASK

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO031I ERRORS IN PARMLIB  
MEMBER=memname REFER TO THE  
HARD COPY LOG. SET OMVS  
COMMAND FAILED.**

**Explanation:** The system encountered errors in a parmlib member.

In the message text:

*memname*

The name of the parmlib member containing the error.

**System action:** The system wrote the error messages to the hard copy log. Error checking for other parmlib members continues.

**Operator response:** None.

**System programmer response:** Look in hard copy log at the previous messages explaining the errors in the parmlib member. Correct the errors in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINPRM

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXO032I THE SET OMVS COMMAND WAS  
SUCCESSFUL.**

**Explanation:** The SET OMVS command was successful.

**System action:** The SET OMVS parmlib members values were set.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINPRM

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO033I IEFPARM DD COULD NOT BE  
ALLOCATED. NO MEMBERS CAN BE  
PROCESSED. RETURN CODE =  
*returncode* REASON CODE =  
*reason\_code***

**Explanation:** The system encountered an error attempting to allocate the IEFPARM DD which is used to read members from SYS1.PARMLIB.

In the message text:

*returncode*

The return code from attempting to allocate the IEFPARM DD.

*reason\_code*

The reason code from attempting to allocate the IEFPARM DD.

**System action:** The SET OMVS command is not processed.

**Operator response:** Contact the system programmer.

**System programmer response:** Use the return code and reason code to refer to the IEFPRMLB macro, documented in *z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG*.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINPRM

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXO034I SYNTAX ERRORS ENCOUNTERED  
WHILE PROCESSING PARMLIB  
MEMBER NAME ON SETOMVS  
COMMAND. FORMAT IS SETOMVS  
RESET = (XX)**

**Explanation:** Syntax errors were found in the Parmlib member specification on the SETOMVS RESET command. The parmlib suffix was incorrectly specified. The correct format is (xx).

**System action:** The SETOMVS command is not processed.

**Operator response:** Enter a valid parmlib member suffix on SETOMVS RESET = (xx). Only one parmlib member may be specified at a time.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMZ1

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO035I ERRORS IN PARMLIB MEMBER =  
*memname*. REFER TO THE HARD  
COPY LOG. SETOMVS RESET  
COMMAND FAILED.**

**Explanation:** The system encountered errors in a parmlib member.

In the message text:

*memname*

The name of the parmlib member containing the error.

**System action:** The system wrote the error message to the hard copy log.

**Operator response:** None.

**System programmer response:** Look in the hard

copy log at the previous messages explaining the errors in the parmlib member. Correct the errors in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINPRM

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXO36I PARMLIB OPTIONS IGNORED WHILE PROCESSING PARMLIB MEMBER = *memname settype*.**

**Explanation:** Not all parmlib commands are accepted by the various parmlib processing operations. This is usually not an error. Consult the documentation for additional details.

In the message text:

*memname*

The name of the parmlib member containing the ignored commands.

*settype*

One of the following:

**SETOMVS RESET = IGNORES CTRACE RUNOPTS SWA.**

Parmlib options ignored by the SETOMVS RESET = command.

**SET OMVS = IGNORES CTRACE FILESYSTYPE RUNOPTS SWA.**

Parmlib options ignored by the SET OMVS command.

**UNKNOWN PARMLIB OPTIONS IGNORED DURING INITIALIZATION.**

Parmlib options have been ignored during initialization.

**System action:** The processing of the command continues.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINPRM

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO37E UNABLE TO PERFORM FILESYS REQUEST FOR *movetype movebuffer*. THIS OPERATION FAILED WITH RETURN CODE *return\_code* REASON CODE *reason\_code*.**

**Explanation:** It is not always possible to move a filesystem from one system to another. Check the return and reason code for additional information. If a file was

part of the problem, check the hardcopy log for BPXF232E.

In the message text:

*movetype*

One of the following:

**FILESYSTEM**

A file system can not be moved.

**MOUNTPOINT**

The mountpoint can not be moved.

**FROM SYSTEM**

The system that the files can not be moved from.

*movebuffer*

The name of either the file system, mountpoint, or system with the failure. If a mountpoint was given, it has been truncated to the first 57 characters only.

*return\_code*

The failure return code.

*reason\_code*

The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** Processing for the command ends.

**Operator response:** Consult the system programmer.

**System programmer response:** Refer to the actions suggested for the return code received.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOTASK

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO38I SUCCESSFULLY MOVED *moveoks* FILESYSTEMS TO SYSTEM *movesys*.**

**Explanation:** This is a status message reporting what happened when the move request to move a collection of file systems from one system to another was processed.

In the message text:

*moveoks*

The number of file systems successfully moved.

*movesys*

The system where the file systems were moved.

**System action:** Processing for the command ends.

**Operator response:** None.

**System programmer response:** To verify that all filesystems moved, enter command D OMVS,F on either the target system, source system, or both systems, and observe filesystem ownership. If there are filesystems that did not move, try moving them individually with the

## BPXO039I • BPXO040I

following command and observe the results:

```
SETOMVS FILESYS,FILESYSTEM=filesystem,SYSNAME=sysname
```

If a move fails, the system issues message BPXO037E to describe the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOTASK

**Routing Code:** 2

**Descriptor Code:** 5

---

### BPXO039I SETOMVS SYNTAXCHECK COMMAND SUCCESSFUL.

**Explanation:** The SYNTAXCHECK of the parmlib member requested was successful.

**System action:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXINPRM

**Routing Code:** 2,10

**Descriptor Code:** 4

---

### BPXO040I hh.mm.ss DISPLAY OMVS

**Explanation:** The following material is part of the message text:

procname	kernelasid	status	parmmemberlist				
USER	JOBNAME	ASID	PID	PPID	STATE	START	CT_SECS
user	jobname	asid	pid	ppid	state r	shhmmss	ct_secs

[LATCHWAITPID=latchwaitpid CMD=command]

[SERVER=servername AF=activefiles MF=maxfiles TYPE=servertype]

[THREAD_ID	TCB@	PRI_JOB	USERNAME	ACC_TIME	SC	STATE]
[threadid	tcbaddr	prijob	username	ac_secs	sc	thdstate]

[TAG=tagdata]

[BRLWAIT=devicenumber INO=inodenumber FILE=filename  
PID=lockpid]

[procname kernelasid SHUTTING DOWN progresscounter  
parmmemberlist]

[The blocking process is on system: sys]

In response to a DISPLAY OMVS,ASID=, DISPLAY OMVS,U=, DISPLAY OMVS,VSERVER or DISPLAY OMVS,PID= operator command, this message displays information about the state of z/OS UNIX and its

processes. The line beginning with user appears one or more times for each process. In response to a DISPLAY OMVS,PID=BRL command, this message displays information about a possible Byte Range Lock situation, where a byte range of a file is locked by another thread for exclusive use only.

In response to a DISPLAY OMVS,ASID=DUBW command, this message displays jobs waiting to become processes.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*kernelasid*

The address space id of the Kernel.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the */etc/init* or */usr/sbin/init* program to complete initialization.

**FORK SHUTDOWN**

FORK Service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

**SHUTDOWN BLOCKED**

z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.

**SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

*parmmemberlist*

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

*user*

The user ID of the process.

*jobname*

The job name of the process.

*asid*

The address space ID for the process or zero when states are Z or L.

*pid*

The process ID, in decimal, of the process; or “-” if no process id has been assigned yet.

*ppid*

The parent process ID, in decimal, of the process.

*state r*

A six character field showing the state of either the process or the most recently created thread in the process. This field includes a five character *state* field and a 1 character *r* field containing the restart state.

*state* is one of the following:

- Column is not being used
- A** Message queue receive wait
- B** Message queue send wait.
- C** Communication system kernel wait
- D** Semaphore operation wait; or, when there is no process id assigned yet, D means the job is waiting to become a process
- E** Quiesce frozen
- F** File system kernel wait
- G** MVS Pause wait
- H** Process state is for multiple threads and `pthread_create` was used to create one of the threads. Process state is obtained from the Initial Pthread created Task (IPT).
- I** Swapped out
- K** Other kernel wait (for example, pause or `sigsuspend`)
- L** Ended and parent has performed wait. The process is the session or process group leader of a process that is still active, but will be removed from the process table after the last session or process group member terminates. (L is for latent zombies.)
- M** Process state is for multiple threads and `pthread_create` was **not** used to create any of the multiple threads. Process state is obtained from the most recently created thread.
- P** Ptrace kernel wait
- Q** Quiesce termination wait
- R** Running (not kernel wait)
- S** Sleeping

**T** Stopped

**W** Waiting for child (wait or `waitpid` callable service)

**X** Creating new process (fork callable service is running)

**Z** Ended and parent has **not** performed wait. (Z is for zombies.)

*r* is the 1 character restart status:

- Column is not being used

**B** Blocked

**P** Permanent

*shhmmss*

The time, in hours, minutes, and seconds, when the process was started.

*ct\_secs*

The total execution time for the process in seconds in the format ssssss.hhh. The value displayed is an approximate value, which may be less than a previously displayed value. When this value exceeds 11.5 days of execution time this field will overflow. When an overflow occurs the field is displayed as \*\*\*\*\*.\*\*\*

*latchwaitpid*

Either zero or the latch process ID, in decimal, for which this process is waiting.

*command*

The command that created the process truncated to 40 characters. You can convert it to uppercase by using the CAPS option.

*servername*

The name of the server process. You can convert it to uppercase by using the CAPS option.

*activefiles*

The number of active server file tokens.

*maxfiles*

The maximum number of active server file tokens allowed.

*servertype*

One of the following:

**FILE**

A network file server

**LOCK**

A network lock server

**FEXP**

A network file exporter

**SFDS**

A shared file server

*threadid*

The thread ID, in hexadecimal, of the thread.

## BPXO041I

### tcbaddr

The address of the TCB that represents the thread.

### prijob

The job name from the current primary address space if different from the home address space, otherwise blank. This is only accurate if the thread is in a wait, otherwise it is from the last time that status was saved. When the data is not available the field will be displayed as \*\*\*\*\*.

### username

The username of the thread if a task level security environment created by pthread\_security\_np exists, otherwise blank. When the data is not available the field will be displayed as \*\*\*\*\*.

### ac\_secs

The accumulated TCB time in seconds in the format ssssss.hhh. When this value exceeds 11.5 days of execution time this field will overflow. When an overflow occurs the field is displayed as \*\*\*\*\*. When the data is not available the field will be displayed as \*\*\*\*\*.

### sc

The current or last syscall request.

### thdstate

The state of the thread as follows:

- A** Message queue receive wait
- B** Message queue send wait
- C** Communication system kernel wait
- D** Semaphore operation wait
- E** Quiesce frozen
- F** File system kernel wait
- G** MVS Pause wait
- J** The thread was pthread created rather than dubbed
- K** Other kernel wait (for example, pause or sigsuspend)
- N** The thread is medium weight
- O** The thread is asynchronous and medium weight
- P** Ptrace kernel wait
- Q** Quiesce termination wait
- R** Running (not kernel wait)
- S** Sleeping
- U** Initial process thread (heavy weight and synchronous)
- V** Thread is detached
- W** Waiting for child (wait or waitpid callable service)

**X** Creating new process (fork callable service is running)

**Y** Thread is in an MVS wait

### tagdata

The tag data associated with the thread, if present. From 1 to 65 EBCDIC characters

### devicenumber

The Device number for which the Byte Range Lock (BRL) Wait occurred.

### inodenumber

The Inode number of the file owning the BRL.

### filename

The name of the file. If the filename has more than 16 characters, the first 15 are displayed followed by a plus sign (+).

### lockpidid

The PID of the process locking that file. This is usually the owner (or one of the owners) of a lock on the same range, but sometimes it is another process that is also waiting.

### progresscounter

An increasing progress counter.

### The blocking process is on system: sys

Displays the name of the system where the blocking process is when the command is issued in a sysplex configuration and the blocking process is from a different system in the sysplex than the system where the command was issued.

**System action:** The system continues processing.

**Operator response:** Resolve the Byte Range Lock situation in order to keep the waiting process running.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOMAST

**Routing Code:** -

**Descriptor Code:** 5,8,9

---

## BPXO041I hh.mm.ss DISPLAY OMVS

**Explanation:** The following material is part of the message text:

procname	kernelasid	status	parmmemberlist	
TYPENAME	DEVICE	----- STATUS-----	QJOBNAME	QPID
type	device	filestatus	qjobname	qpid
<b>NAME=</b> filesysname				
<b>PATH=</b> pathname				
<b>MOUNT PARM=</b> mountparm				

In response to a DISPLAY OMVS,FILE command, this message displays information about z/OS UNIX and its file systems. The line beginning with type appears one or more times for each file system.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*kernelasid*

The address space id of the Kernel.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

Oz/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the */etc/init* or */usr/sbin/init* program to complete initialization.

*parmmemberlist*

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

*type*

The file system type as defined by the FILESYSTYPE statement.

*device*

The device value to uniquely identify the device.

*filestatus*

One of the following:

**FORCE UNMOUNT**

An unmount with force is in progress.

**DRAIN UNMOUNT**

A file system drain unmount is in progress.

**IMMEDIATE UNMOUNT**

An immediate unmount is in progress.

**NORMAL UNMOUNT**

A normal unmount is in progress.

**RESET UNMOUNT**

An unmount was reset.

**IMMEDIATE UNMOUNT ATTEMPTED**

An immediate unmount was attempted

**ACTIVE**

File system is active.

**QUIESCED**

File system is quiesced.

**NOT ACTIVE**

File system is not active.

**MOUNT IN PROGRESS**

File system is being mounted.

**ASYNCH MOUNT IN PROGRESS**

File system is being mounted asynchronously.

*qjobname*

The jobname that quiesced the file system.

*qpid*

The process ID that quiesced the file system.

*filesysname*

The name of the file system.

*pathname*

The name of the directory where the file system is mounted truncated to 60 characters. You can convert it to uppercase by using the CAPS option.

*mountparm*

The parameter specified to the mount callable service, truncated to 57 characters. You can convert it to uppercase by using the CAPS option.

**System action:** The system continues processing.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOMAST

**Routing Code:** -

**Descriptor Code:** 5,8,9

**BPXO042I hh.mm.ss DISPLAY OMVS**

**Explanation:** The following material is part of the message text:

*procname kernelasid status parmmemberlist*

[valuespecified NOT FOUND]

*procname kernelasid SHUTTING DOWN progresscounter parmmemberlist*

This message is displayed under the following circumstances:

- In response to a DISPLAY OMVS operator command where process data was not able to be collected.
- In response to a DISPLAY OMVS,ASID=, DISPLAY OMVS,U=, DISPLAY OMVS,VSERVER or DISPLAY

OMVS,PID= operator command when the process specified could not be found.

- | • In response to a D OMVS,FILE operator command when the specified filtering is used and the file systems could not be found.
- | • DISPLAY OMVS,ASID=DUBW when there are no jobs waiting to be dubbed. The following message text is displayed to indicate no jobs are waiting:

**NO JOBS WAITING FOR UNIX SYSTEM SERVICES INITIALIZATION**

In the message text:

*hh.mm.ss*

The time in hours (00—23), minutes (00—59), and seconds (00—59) for the DISPLAY OMVS command.

*procname*

The name of the member in SYS1.PROCLIB used to start z/OS UNIX.

*kernelasid*

The address space id of the Kernel.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the */etc/init* or */usr/sbin/init* program to complete initialization.

**FORK SHUTDOWN**

FORK Service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

**SHUTDOWN BLOCKED**

z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.

**SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

*parmmemberlist*

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

*valuespecified*

The DISPLAY OMVS ASID=, U= , PID= or FILE,criteria= value specified on DISPLAY OMVS.

*progresscounter*

An increasing progress counter.

**System action:** The system continues processing.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOMAST

**Routing Code:** -

**Descriptor Code:** 5,8,9

**BPXO043I hh.mm.ss DISPLAY OMVS text**

**Explanation:** Where *text* is:

<i>procname</i>	<i>kernelasid</i>	<i>status</i>	<i>parmmemberlist</i>
-----------------	-------------------	---------------	-----------------------

CURRENT UNIX CONFIGURATION SETTINGS:

MAXPROCSYS=maxprocsys	MAXPROCUSER=maxprocuser
MAXFILEPROC=maxfileproc	MAXFILESIZE=maxfilesize
MAXPUTIME=maxputime	MAXUIDS=maxuids
MAXPTYS=maxpty	
MAXMMAPAREA=max mmaparea	MAXASSIZE=maxassize
MAXTHREADS=maxthreads	MAXTHREADTASKS=maxthreadtasks
MAXCORESIZE=maxcoresize	MAXSHAREPAGES=maxsharepages
IPCMQGBYTES=ipcmqgbytes	IPCMQGMNUM=ipcmqgnum
IPCMMSGNIDS=ipcmsgnids	IPCEMNNIDS=ipcemnnids
IPCEMNOPS=ipsemnops	IPSEMSEMS=ipsemsemsems
IPSHMPAGES=ipshmpages	IPSSHMMNIDS=ipcshmnnids
IPCSHMNSEGS=ipcshmseg	IPCSHMPAGES=ipcshmmpages
SUPERUSER=superuser	FORKCOPY=forkcopy
STEPLIBSLST=stepliblist	
USERIDALIASTABLE=useridalias	

PRIORITYTYPE VALUES: priorpstatus

*priortyp*

PRIORITYGOAL VALUES: priorgoalstatus

*noargs*

*prioritygoal*

MAXQUEUEDSIGS=maxqueuedsigs	SHRLIBRGNNSIZE=shrlibrgnsize
SHRLIBMAXPAGES=shrlibmaxpages	VERSION=versvalue
SYSCALL COUNTS=syscallcount	TTYGROUP=ttygroup
SYSPLEX=syplexmode	BRLM SERVER=brlmvalue
LIMMSG=limmsg	AUTOCVT=autocvt
RESOLVERPROC=resolver	
AUTHPGMLIST=authpgmlist	
SWA=swamode	
procname kernelasid	SHUTTING DOWN progresscounter parmmemberlist

In response to a DISPLAY OMVS,OPTIONS operator command, this message displays current values of parmlib options. Some are able to be set using the SET OMVS or SETOMVS commands.

In the message text:

<i>hh.mm.ss</i>	<i>maxcpuftime</i> Maximum CPU time.
The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.	<i>maxuids</i> Maximum number of users on the system.
<i>procname</i>	<i>maxpty</i> Maximum number of pseudo-terminal sessions.
The name of the member in SYS1.PROCLIB used to start z/OS UNIX.	<i>max mmaparea</i> Maximum size of memory map area in PAGES.
<i>kernelasid</i>	<i>maxassize</i> Maximum address space size.
The address space id of the kernel.	<i>maxthreads</i> Maximum number of threads.
<i>status</i>	<i>max thread tasks</i> Maximum number of tasks running pthreads per process.
One of the following:	<i>maxcoresize</i> Maximum core size.
<b>ACTIVE</b> z/OS UNIX is currently active.	<i>maxsharepages</i> Maximum number of pages that can be in a shared relationship in the system.
<b>NOT STARTED</b> z/OS UNIX was not started.	<i>ipcmsgqbytes</i> Maximum bytes per message queue.
<b>INITIALIZING</b> z/OS UNIX is initializing.	<i>ipcmsgqnum</i> Maximum messages per queue.
<b>TERMINATING</b> z/OS UNIX is terminating.	<i>ipcmmsgnids</i> Maximum system queue IDs.
<b>TERMINATED</b> z/OS UNIX has terminated.	<i>ipcsemnids</i> Maximum system semaphore IDs.
<b>ETC/INIT WAIT</b> z/OS UNIX is waiting for the <b>/etc/init</b> or <b>/usr/sbin/init</b> program to complete initialization.	<i>ipcsemnops</i> Maximum number of operations per BPX1SOP (SEMOP) call.
<b>FORK SHUTDOWN</b> FORK service has been shutdown.	<i>ipcsemnsems</i> Maximum number of semaphores per semaphore set.
<b>SHUTTING DOWN</b> z/OS UNIX is shutting down.	<i>ipcshmmpages</i> Maximum system shared memory pages for all segments.
<b>SHUTDOWN BLOCKED</b> z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.	<i>ipcshmnids</i> Maximum system shared memory IDs.
<b>SHUTDOWN</b> z/OS UNIX is shut down.	<i>ipcshmnnsegs</i> Maximum shared memory segments per process.
<b>RESTARTING</b> z/OS UNIX is restarting after a shut down.	<i>ipcshmmpages</i> Maximum system shared memory pages for all segments.
<i>parmmemberlist</i>	<i>superuser</i> Userid of the Super User.
The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.	<i>forkcopy</i> One of the following:
<i>maxprocsys</i> Maximum processes on the system.	
<i>maxprocuser</i> Maximum processes per User ID.	
<i>maxfileproc</i> Maximum number of allocated files for a single process.	
<i>maxfilesize</i> Maximum file size.	

**COPY**

Copy parent data to child at the time of the fork.

**COW**

Use Copy-on-Write for the parent data (Default).

*stepliblist*

Name of STEPLIB dataset, truncated to 50 characters.

*useridalias*

Name of Userid table, truncated to 50 characters.

*priorgpgstatus*

One of the following:

**NONE**

PRIORITYPG values are not currently set.

**PROPAGATED**

The last PRIORITYPG value was propagated.

*prioritypg*

Performance group numbers for compatibility mode.

*priorgoalstatus*

One of the following:

**NONE**

PRIORITYGOAL values are set.

**PROPAGATED**

The last PRIORITYGOAL value was propagated.

*noargs*

Argument suppression list.

*prioritygoal*

Service classes for goal mode.

*maxqueuedsigs*

Maximum queued signals.

*shrlibrgnsize*

Shared library region size.

*shrlibmaxpages*

Shared library maximum pages.

*versvalue*

Version directory value.

*syscallcount*

One of the following:

**YES**

Indicates tracing of syscall information is being done.

**NO**

Indicates tracing for this is turned off.

*ttygroup*

Group name for terminals.

*sysplexmode*

One of the following:

**YES**

Indicates that the system has been IPLed as a SYSPLEX.

**NO**

Indicates that the system has been IPLed as a local system.

*brlmvalue*

The name of the system in a z/OS UNIX System Services sysplex that is functioning as the Byte Range Lock Manager server. *brlmvalue* = 'N/A' when either *sysplexmode*=NO, or when the distributed BRLM function is active.

*limmsg*

Indicates the Level of Limits Messaging.

*autocvt*

Indicates conversion of I/O data.

*resproc*

The name of the TCP/IP resolver started procedure.

*authpgmlist*

Name of the APF/Program control list, truncated to 50 characters.

*progresscounter*

An increasing progress counter.

*swamode*

One of the following:

**ABOVE**

Indicates that all SWA control blocks are to be allocated above the 16 megabyte line.

**BELOW**

Indicates that all SWA control blocks are to be allocated below the 16 megabyte line.

**System action:** The system continues processing.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOMAST

**Routing Code:** -

**Descriptor Code:** 5,8,9

**BPXO044I hh.mm.ss DISPLAY OMVS text**

**Explanation:** Where *text* is:

procname	kernelasid	status	parmmemberlist
TYPENAME	DEVICE	---STATUS---	MODE
type	device	filestatus	filemode
		qjobname	qpid
		NAME=filesysname	
		path=pathname	
		MOUNTPARM=mountparm	

In response to a DISPLAY OMVS,FILE command, this message displays information about z/OS UNIX and its

file systems. The line beginning with type appears one or more times for each file system.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*kernelasid*

The address space id of the Kernel.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the */etc/init* or */usr/sbin/init* program to complete initialization.

**FORK SHUTDOWN**

FORK Service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

**SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

*parmmemberlist*

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

*type*

The file system type as defined by the FILESYSTYPE statement.

*device*

The device value to uniquely identify the device.

*filestatus*

One of the following:

**FORCE UNMOUNT**

An unmount with force is in progress.

**DRAIN UNMOUNT**

A file system drain unmount is in progress.

**IMMEDIATE UNMOUNT**

An immediate unmount is in progress.

**NORMAL UNMOUNT**

A normal unmount is in progress.

**RESET UNMOUNT**

An unmount was reset.

**IMMEDIATE UNMOUNT ATTEMPTED**

An immediate unmount was attempted

**ACTIVE**

File system is active.

**QUIESCED**

File system is quiesced.

**NOT ACTIVE**

File system is not active.

**MOUNT IN PROGRESS**

File system is being mounted.

**ASYNCH MOUNT IN PROGRESS**

File system is being mounted asynchronously.

*filemode*

One of the following:

**RDWR**

The file system is mounted for read/write access.

**READ**

The file system is mounted for read only access.

*qjobname*

The jobname that quiesced the file system.

*qpid*

The process ID that quiesced the file system.

*filesysname*

The name of the file system.

*pathname*

The name of the directory where the file system is mounted truncated to 60 characters. You can convert it to uppercase by using the CAPS option.

*mountparm*

The parameter specified to the mount callable service, truncated to 57 characters. You can convert it to uppercase by using the CAPS option.

**System action:** The system continues processing.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOMAST

**Routing Code:** -

**Descriptor Code:** 5,8,9

**BPXO045I hh.mm.ss DISPLAY OMVS****Explanation:**

```

procname    kernelasid    status    parmmemberlist

TYPENAME DEVICE -----STATUS----- MODE MOUNTED LATCH
type      device        filestatus   filemode mount_date L=1
                                         mount_time Q=q

NAME=filesysname
PATH=pathname
AGGREGATE NAME=aggname
MOUNT PARM=mountparm
OWNER=fsowner automove client
QSYSTEM=fqsystem
QJONAME=fqowner
QPID=qpid
TAG=(textflag,ccsid)

s1type SYSTEM LIST: systemname systemname systemname systemname
systemname
systemname systemname systemname systemname systemname
systemname
procname kernelasid SHUTTING DOWN progresscounter parmmemberlist

```

In response to a DISPLAY OMVS,FILE command, this message displays information about z/OS UNIX and its file systems. The line beginning with type appears one or more times for each file system.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*kernelasid*

The address space id of the Kernel.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has been terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the **/etc/init** or **/usr/sbin/init** program to complete initialization.

**FORK SHUTDOWN**

FORK service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

**SHUTDOWN BLOCKED**

z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.

**SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

*parmmemberlist*

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

*type*

The file system type as defined by the FILESYSTYPE statement.

*device*

The device value to uniquely identify the device.

*filestatus*

One of the following:

**FORCE UNMOUNT**

An umount with force is in progress.

**DRAIN UNMOUNT**

A file system drain umount is in progress.

**IMMEDIATE UNMOUNT**

An immediate umount is in progress.

**NORMAL UNMOUNT**

A normal umount is in progress.

**RESET UNMOUNT**

An umount was reset.

**IMMEDIATE UNMOUNT ATTEMPTED**

An immediate umount was attempted.

**ACTIVE**

File system is active.

**QUIESCED**

File system is quiesced.

**NOT ACTIVE**

File system is not active.

**MOUNT IN PROGRESS**

File system is being mounted.

**ASYNCH MOUNT IN PROGRESS**

File system is being mounted asynchronously.

**IN RECOVERY**

File system is in recovery processing.

**UNOWNED**

File system has no server or owner.

**SUPERQUIESCED**

File system has been superquiesced.

*filemode*

One of the following:

<b>RDWR</b>	The file system is mounted for read/write access.	<b>AUTOMOVE=E</b>	The file system will be automatically moved using an exclude system list during recovery operations.
<b>READ</b>	The file system is mounted for read only access.	<b>client</b>	One of the following:
<b>mount_date</b>	The date that the file system was mounted.	<b>CLIENT=Y</b>	This file system is a client.
<b>mount_time</b>	The time that the file system was mounted.	<b>CLIENT=N</b>	This file system is not a client.
<b>L=l</b>	The latch number for this file system	<b>fsqsystem</b>	The system that quiesced this file system.
<b>Q=q</b>	The quiesce latch number for this file system or 0 if the file system has never been quiesced by z/OS UNIX System Services.	<b>fsqowner</b>	The jobname that quiesced the file system.
<i>filesysname</i>	The name of the file system	<b>qpid</b>	The pid that quiesced the file system.
<b>LATCH=latch</b>	The latch number for the file system.	<b>textflag</b>	One of the following:
<b>QL=ql</b>		<b>TEXT</b>	Auto-conversion of untagged files is allowed.
<i>pathname</i>	The name of the directory where the file system is mounted truncated to 60 characters. You can convert it to uppercase by using the CAPS option.	<b>NOTEXT</b>	Auto-conversion of untagged files is not allowed.
<i>aggname</i>	The name of the aggregate data set that contains the file system.	<b>ccsid</b>	The implicit CCSID for untagged files in the file system.
<i>mountparm</i>	The parameter specified to the mount callable service, truncated to 57 characters. You can convert it to uppercase by using the CAPS option.	<b>slistype</b>	The type of the system list in use (include/exclude).
<i>fsowner</i>	The system that owns this file system.	<b>systemname</b>	The name of a system in the automove system list.
<i>automove</i>	This information will only be displayed if the system is running SYSPLEX(YES). One of the following:	<b>progresscounter</b>	An increasing progress counter.
<b>AUTOMOVE=Y</b>	The file system will be automatically moved during recovery operations.	<b>System action:</b>	The system continues processing.
<b>AUTOMOVE=N</b>	The file system will NOT be automatically moved during recovery operations.	<b>Operator response:</b>	None.
<b>AUTOMOVE=U</b>	The file system will be automatically unmounted during recovery operations.	<b>System programmer response:</b>	None.
<b>AUTOMOVE=I</b>	The file system will be automatically moved using an include system list during recovery operations.	<b>Source:</b>	z/OS UNIX System Services kernel (BPX)
		<b>Detecting Module:</b>	BPXOMAST
		<b>Routing Code:</b>	-
		<b>Descriptor Code:</b>	5,8,9

**BPXO046I hh.mm.ss DISPLAY OMVS text****Explanation:** Where *text* is:

procname	kernelasid	status	parmmemberlist
PFS CONFIGURATION INFORMATION			
PFS TYPE	DESCRIPTION	ENTRY	MAXSOCK
type	description	entrypoint	maxsock
OPNSOCK	HIGHUSED	opnsock	hwmsock
PFS NAME	DESCRIPTION	ENTRY	STATUS
name	description	entrypoint	pfsstatus
FLAGS			pfsflags
PFS TYPE PARAMETER INFORMATION			

```
type      parms
type      CURRENT VALUES: FIXED(fixed) VIRTUAL(virtual)
procname  kernelasid  SHUTTING DOWN progresscounter  parmmemberlist
```

In response to the DISPLAY OMVS,PFS command, this message displays information about the z/OS UNIX physical file systems.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*kernelasid*

The address space id of the Kernel.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the **/etc/init** or **/usr/sbin/init** program to complete initialization.

**FORK SHUTDOWN**

FORK service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

| **SHUTDOWN BLOCKED**

z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.

**SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

*parmmemberlist*

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

*type*

The data specified with the **TYPE** operand on the **FILESYSTYPE** statement.

**Note:** If a dash (-) appears as the first character of **PFS TYPE**, it means the PFS is inactive.

*description*

A brief description of the physical file system.

*entrypoint*

The name of the load module specified with the **ENTRYPOINT** operand on the **FILESYSTYPE** or **SUBFILESYSTYPE** statements.

*maxsock*

This is the **MAXSOCKETS** operand of a **NETWORK** statement for a sockets physical file system. It specifies the maximum number of sockets that can be open at one time for the address family.

*opnssock*

The number of sockets that are currently opened for this sockets physical file system.

*hwmsock*

The highest number of sockets opened at one time for this sockets physical file system.

*name*

The data specified with the **NAME** operand on the **SUBFILESYSTYPE** statement. If a dash (-) should appear as the first character for any PFS name, it means that the PFS is inactive.

*pfsstatus*

**ACT** — The PFS is active.

**INACT** — The PFS is inactive.

*pfsflags*

**CD** — Current Default transport provider: The system is currently using this PFS as the default transport provider although it was not specified as the default with the **SUBFILESYSTYPE** statement.

**SD** — Specified Default transport provider: This PFS was specified as the default transport provider with the **SUBFILESYSTYPE** statement. However, it is currently not being used as the default.

**SC** — Specified is Current transport provider: This PFS was specified as the default transport provider with the **SUBFILESYSTYPE** statement and the system is currently using it as the default.

*parms*

The data specified with the **PARM** operand on the **FILESYSTYPE** or the **SUBFILESYSTYPE** statements. For the HFS, the current settings for the **FIXED** and **VIRTUAL** parameters will also be displayed.

**Note:** Although you may specify up to 1024 bytes with the **PARM** operand, only the first 165 bytes will be displayed.

*fixed*

The amount of virtual storage (in megabytes) that is fixed at HFS initialization time.

***virtual***

The amount of virtual storage (in megabytes) that HFS data and meta data buffers should use.

***progresscounter***

An increasing progress counter.

**System action:** The system continues processing.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOMAST

**Routing Code:** -

**Descriptor Code:** 5,8,9

**BPXO047I hh.mm.ss DISPLAY OMVS text**

**Explanation:** Where *text* is:

```
procname    kernelasid   status   parmmemberlist
IPV4 HOME INTERFACE INFORMATION
TP NAME     HOME ADDRESS      FLAGS
tpname      homeaddress      flags

IPV4 HOST ROUTE INFORMATION
TP NAME     HOST DESTINATION   METRIC
tpname      hostaddress       metric

IPV4 NETWORK ROUTE INFORMATION
TP NAME     NET DESTINATION     NET MASK METRIC
tpname      netaddress        netmask metric

NO ROUTES IN THE CINET ROUTING TABLES

NO ROUTES IN THE CINET ROUTING TABLES FOR tpname

IPV6 HOME INTERFACE INFORMATION
TP NAME     HOME ADDRESS      FLAGS
tpname      homeaddress      flags

IPV6 HOST ROUTE INFORMATION
TP NAME     HOST DESTINATION   METRIC
tpname      hostaddress       metric

IPV6 NETWORK ROUTE INFORMATION
TP NAME     NET DESTINATION     NET MASK METRIC
tpname      net address        netmask metric

procname    kernelasid   SHUTTING DOWN progresscounter parmmemberlist
```

In response to the DISPLAY OMVS,CINET command, this message displays information about the routes contained in the Common Inet (CINET) physical file system.

The information displayed in this message is similar to information that can be displayed with the **NETSTAT GATE** and the **NETSTAT HOME** commands.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

***procname***

The name of the z/OS UNIX cataloged procedure.

***kernelasid***

The address space id of the Kernel.

***status***

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the **/etc/init** or **/usr/sbin/init** program to complete initialization.

**FORK SHUTDOWN**

FORK Service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

**SHUTDOWN BLOCKED**

z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.

**SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

***parmmemberlist***

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

***tpname***

The name of the transport provider for which the information is being displayed.

***homeaddress***

The internet protocol (IP) address of this transport provider.

***flags***

**DRS** — Default Routes Supported: When the Common Inet Pre-Router can not find a specified IP address in its routing tables, it will pass the request to this transport provider. If no transport provider supports default routes, then the request would be rejected with **ENETUNREACH**.

***hostaddress***

The internet protocol (IP) address of a host system.

**metric**

When selecting a route, if two transport providers can access the same route, Common Inet Pre-Router will select the route with the best metric. The higher the number, the better the route.

**netaddress**

When a transport provider supplies network routing information to the Common Inet Pre-Router, the network destination is the IP address that can be accessed through the transport provider.

**netmask**

A mask that is applied to destination IP addresses to separate the network number from the host number.

**progresscounter**

An increasing progress counter.

**System action:** The system continues processing.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXOMAST

**Routing Code:** -

**Descriptor Code:** 5,8,9

---

**BPXO048I** **ERROR IN SETOMVS COMMAND.**  
*bad-parameter* **VERSION VALUE MAY BE A SINGLE SLASH OR A STRING THAT DOES NOT CONTAIN ANY BLANKS OR SLASHES.**

**Explanation:** A SETOMVS command parameter should have been either a single slash (/) or a string that did not contain any blanks or slashes.

In the message text:

***bad-parameter***

Parameter that must be a single slash or not contain any blanks or slashes.

**System action:** The system ignores the parameter in error, keeps the current value and continues to process the rest of the SETOMVS command.

**Operator response:** Issue a SETOMVS command with this parameter corrected.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMU1

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO049I** **ERROR IN PARMLIB MEMBER**  
*memname* **ON LINE** *line-number*,  
**POSITION** *position-number*, **INPUT**  
**PARAMETER** **MAY ONLY BE A SINGLE / OR A STRING THAT MUST NOT CONTAIN ANY SLASHES OR BLANKS.**  
**THE SYSTEM DEFAULT VALUE OF** *default-value* **IS USED. DETECTING MODULE IS** *detmod*. **INPUT LINE:** *input-line*

**Explanation:** The system encountered an error in a parmlib member.

In the message text:

***memname***

The name of the parmlib member containing the error.

***line-number***

The number of the member line containing the error.

***position-number***

The position of the error in the line. The position number is the number of columns from the left.

***default-value***

The system default value for the erroneous parameter.

***detmod***

The module that detected the error.

***input-line***

The text of the line containing the error.

**System action:** The system ignores the erroneous parameter. The system uses the default value for this parameter. The system checks the rest of the parmlib member to find any other errors.

**Operator response:** None.

**System programmer response:** Correct the error in the parmlib member before using it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMU1

**Routing Code:** -

**Descriptor Code:** 4

---

**BPXO050I** **MAXRTYS IS OBSOLETE. THE VALUE CANNOT BE CHANGED.**

**Explanation:** THE MAXRTYS parmlib option is no longer supported. Any MAXRTYS parmlib option that is specified in a BPXPRMXX parmlib member is accepted, but otherwise ignored. The MAXRTYS parmlib value cannot be changed.

**System action:** The system ignores the parameter, keeps the current value and continues to process the rest of the SETOMVS command.

**Operator response:** Do not use the MAXRTYS option.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMX1

**Routing Code:** 2,10

**Descriptor Code:** 5

#### BPXO051I hh.mm.ss DISPLAY OMVS text

**Explanation:** Where *text* is:

```
[SYSTEM WIDE LIMITS:      LIMMSG=limitval]
[PROCESS LIMITS:          LIMMSG=limitval]
  limit_name nnnn
```

In response to a DISPLAY OMVS, LIMITS operator command, this table displays current, highwater, and maximum limit values from most of the z/OS UNIX System Services-wide settings. The commands:

- DISPLAY OMVS,LIMITS
- DISPLAY OMVS,LIMITS,PID=*pid*

will display either system-wide or process wide-limit information. The following is an example of a system limit table, which appears in the first case.

**Note:** This is an example; the actual values will differ from this display.

	CURRENT USAGE	HIGHWATER USAGE	SYSTEM LIMIT
MAXPROCSYS	15	33	256
MAXUIDS	20	60	100*
MAXPTYs	22	65	256
MAXMMAPAREA	0	0	256
MAXSHAREPAGES	0	812	4096
IPCMMSGNIDS	0	0	800*
IPCSEMNNIDS	10	10	500
IPCSHMPAGES	0	0	163836
IPCMMSGQBYTES	---	4096	262144
IPCSMSGQMNUM	---	0	10000
IPCSHMPAGES	---	0	256
SHRLIBRGNNSIZE	0	0	67108864
SHRLIBMAXPAGES	0	0	4096

#### Notes:

1. An \* at the end of a row indicates that this value has been changed by a SETOMVS or SET OMVS command.
2. A SYSTEM LIMIT with a alphabetic suffix indicates a denomination (multiplier) value. Refer to *z/OS MVS Initialization and Tuning Reference* for allowed values on BPXPARMxx statements.
3. Three dashes (---) indicate that the system cannot provide a meaningful value for this limit.

The following is an example of a process limit table, which appears in the second case.

**Note:** This is an example; the actual values will differ from this display.

CURRENT	HIGHWATER	PROCESS USAGE	USAGE	LIMIT
MAXFILEPROC	0	1	1	256,1000
MAXFILESIZE	---	---	---	NOLIMIT
MAXPROCUSER	1	4	4	16
MAXQUEUEDSIGS	0	0	0	1000
MAXTHREADS	0	0	0	200
MAXTHREADTASKS	0	0	0	50
IPCSHMNSEGS	0	0	0	10
MAXCORESIZE	---	---	---	4194304,NOLIMIT
MAXMEMLIMIT	0	0	0	10M,16383G

For a description of all these limits, see the BPXPRMXX parmlib member.

#### Notes:

1. For MAXCORESIZE, MAXFILESIZE, MAXPROFILE, and MAXMEMLIMIT it is possible to have different values for the SOFT and HARDLIMIT; see setrlimit(). Only one value will be displayed in the LIMIT column when they are the same. When they are different, the first displayed value is the SOFTLIMIT followed by a comma and then the HARDLIMIT.
2. Whenever one limit is unlimited, the text NOLIMIT will be displayed.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*limitval*

Either NONE, SYSTEM, or ALL.

*limit\_name*

The name of the system-wide limit whose values (nnnn) are displayed in this row. This limit is valid for all running and future processes.

**System action:** The system continues processing.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPX0MAST

**Routing Code:** -

**Descriptor Code:** 5,8,9

#### BPXO052I THE SYSNAME PARM VALUE MUST CONTAIN ONLY ALPHABETIC, NUMERIC, OR NATIONAL CHARACTERS

**Explanation:** An error occurred in the specifications of SYSNAME. A character was used in SYSNAME that was not in the Alphabetic, Numeric, or National character sets.

## BPXO053I • BPXO056I

**System action:** The system ignores the parameter and continues to process the rest of the command.

**Operator response:** Use only Alphabetic, Numeric, or National character sets for SYSNAME.

**System programmer response:** Correct the SYSNAME and issue the command again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMU1

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO053I THE MOUNT PARAMETERS:  
AUTOMOVE, NOAUTOMOVE, AND  
UNMOUNT ARE MUTUALLY  
EXCLUSIVE. SPECIFY ONLY ONE PER  
MOUNT.**

**Explanation:** An error occurred in the specification of the MOUNT parameters. AUTOMOVE, NOAUTOMOVE and UNMOUNT are mutually exclusive.

**System action:** The system ignores this parameter and continues to process the rest of the command.

**Operator response:** Only specify one per mount statement.

**System programmer response:** Only specify one per mount statement and issue it again.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMUI

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO054I SETOMVS SYNTAX ERROR; PID= was  
expected**

**Explanation:** An error occurred in the specification of the SETOMVS command because the command contained a parameter requiring a PID (process ID) and none was specified.

**System action:** The system ignores this command and processing continues.

**Operator response:** Reenter the command with a valid PID= value.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMUI

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO055I ERROR IN SETOMVS COMMAND. AT  
LEAST ONE SYSNAME MUST BE  
SPECIFIED ON THE AUTOMOVE  
SYSTEM LIST**

**Explanation:** The system encountered an error in the SETOMVS command. The AUTOMOVE=YES specification followed by a system list requires an indicator and at least one SYSNAME.

**System action:** The system ignores this parameter and continues to process the rest of the command.

**Operator response:** Reissue the SETOMVS command after correcting this parameter.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMUI

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO056I ERROR IN SETOMVS COMMAND. THE  
*parmname* PARAMETER VALUE IS OUT  
OF THE ALLOWED RANGE OF *minlimit*  
TO *maxlimit***

**Explanation:** The system encountered an error in the SETOMVS command. The value specified for *parmname* is not within the valid range.

In the message text:

*parmname*

The SETOMVS parameter on which the system detected an out-of-range value.

*minlimit*

The minimum value allowed for this parameter.

*maxlimit*

The maximum value allowed for this parameter

**System action:** The system ignores this parameter and continues to process the rest of the command.

**Operator response:** Reissue the SETOMVS command to reset this parameter value within the range noted. Most likely, you specified *parmname* with a denomination (multiplier) suffix that caused the specification value to be above the maximum allowed value. If necessary, review *z/OS MVS System Commands* or *z/OS MVS Initialization and Tuning Reference* for syntax and restrictions on the use of multipliers on SETOMVS commands the BPXPARMxx members, respectively.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXIPMUI

**Routing Code:** 2

**Descriptor Code:** 5

---

**BPXO057I hh.mm.ss DISPLAY**

```
procname kernalasid status parmmemberlist
OMVS UNIX SERIALIZATION REPORT
text
```

**Explanation:** *text* is either:

NO RESOURCE CONTENTION EXISTS

Or a report, as follows:

UNIX SERIALIZATION REPORT

RESOURCE #*n*:

```
NAME= object DATA: SHMID=nnnnnnnnn OFFS/
ADDR=nnnnnnnnnnnnnnnnnn
JOBNAME ASID TCB PID USER DATA EXC/SHR OWN/WAIT
:

```

RESOURCE #*n*:

```
NAME= object DATA: SHMID=nnnnnnnn OFFS/
ADDR=nnnnnnnnnnnnnnnnnn
JOBNAME ASID TCB PID USER DATA EXC/SHR OWN/WAIT
:

```

RESOURCE #*nnnn* IS LOCKED BY

```
NAME= object DATA: SHMID=nnnnnnnn OFFS/
ADDR=nnnnnnnnnnnnnnnnnn
```

In response to a D OMVS,SER command, the system returns message **NO RESOURCE CONTENTION** when no resource contention exists for the ownership of shared-memory mutexes (mutual exclusion locks) or condition variables.

If there is resource contention for the ownership of shared-memory mutexes (mutual exclusion locks) or condition variables the response to a D OMVS,SER command includes the detailed form of this message.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the */etc/init* or */usr/sbin/init* program to complete initialization.

**FORK SHUTDOWN**

FORK Service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

| **SHUTDOWN BLOCKED**

z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.

| **SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

*parmmemberlist*

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

**RESOURCE #*n***

An indication to separately identify specific shared objects (mutex or condition variable) within the message table.

**NAME=object**

The type of object (MUTEX or condition variable (CONDVAR) for which the lock is held

**SHMID=nnnnnnnn**

The shared memory ID of the task control block holding or waiting on the held object.

**OFFS / ADDR=nnnnnnnnnnnnnnnnnn**

For objects in an above-the-bar memory segment: the address the object

For segments below the bar: the offset within the shared memory segment because an address space below the bar can map it at a different virtual address.

**JOBNAME**

The job name of the job holding or waiting on the held object.

**ASID**

The address space ID (ASID) of the task control block holding or waiting on the held object.

**TCB**

The hexadecimal address of the task control block (TCB) holding or waiting on the held object.

## BPXO058I

### USER DATA

The 16-digit address of the user data.

### EXC/SHR

The job (jobname) is the exclusive owner (EXE) of the shared object (mutex or condition variable) or is sharing (SHR) it with another task.

### OWN/WAIT

The job (jobname) is the current owner (OWN) of the shared object (mutex or condition variable) or the task waiting (WAIT) to gain access to it.

**System action:** Processing continues.

**Operator response:** None.

**System programmer response:** None. Unless you have determined a specific job has held a shared object for an excessive length of time (and possibly in a stalled or looping condition) to the detriment of overall job processing. If such is the case, consider cancelling the offending job.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXEKDA

**Routing Code:** -

**Descriptor Code:** 5,8,9

---

## BPXO058I hh.mm.ss DISPLAY OMVS

*text*

**Explanation:** In the message, *text* is as follows:

```
procname kernalasid status parmmemberlist
SHORT LIST OF FAILURES:
TIME=time DATE=date      MOVE  RC=rccc RSN=rsnocode
NAME=filesystem
PATH=path
SYSNAME=sysname
TIME=time DATE=date      MOUNT RC=rccc RSN=rsnocode
NAME=filesystem
TYPE=fstype
PATH=path
```

In response to a DISPLAY OMVS,MF operator command, this message displays information about the last MOUNT or MOVE failures. If the command issued was D OMVS,MF

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

### NOT STARTED

z/OS UNIX was not started.

### INITIALIZING

z/OS UNIX is initializing.

### TERMINATING

z/OS UNIX is terminating.

### TERMINATED

z/OS UNIX has terminated.

### ETC/INIT WAIT

z/OS UNIX is waiting for the /etc/init or /usr/sbin/init program to complete initialization.

### FORK SHUTDOWN

FORK Service has been shutdown.

### SHUTTING DOWN

z/OS UNIX is shutting down.

### SHUTDOWN BLOCKED

z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.

### SHUTDOWN

z/OS UNIX is shut down.

### RESTARTING

z/OS UNIX is restarting after a shut down.

*parmmemberlist*

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

**TIME=time**

Displays the time that the move or mount failure occurred.

**DATE=date**

Displays the date that the move or mount failure occurred.

**RC=rccc**

The return code for the move or mount failure.

**RSN=rsnocode**

The reason code for the move or mount failure.

**NAME=filesystem**

The name of the file system that was being moved or mounted.

**TYPE=type**

The type of filesystem that was being moved or mounted.

**PATH=path**

The path for the file system.

**SYSNAME=sysname**

The name of the system where the file system resides.

**OMVS STORAGE:** *omvsbytes*

The number of bytes in the OMVS address space private area consumed by all dynamically activated service items.

**System action:** The system continues processing.

**Operator response:** None

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:**

**Routing Code:** -

**Descriptor Code:** -

**BPXO059I hh.mm.ss DISPLAY OMVS**

*text*

**Explanation:** In the message, *text* is as follows:

```
procname kernalasid status parmmemberlist
          DYNAMIC SERVICE ACTIVATION REPORT
SET #3:
  LINKLIB=linklib_dataset           VOL=volume
  LPALIB=lpalib_dataset             VOL=volume
  servitem1 servitem2 servitem3 servitem4 servitem5
  servitem6 servitem7.....servitemn
SET #2:
  LINKLIB=linklib_dataset           VOL=volume
  LPALIB=lpalib_dataset             VOL=volume
  servitem1 servitem2 servitem3 servitem4 servitem5
  servitem6 servitem7.....servitemn
SET #1:
  LINKLIB=linklib_dataset           VOL=volume
  LPALIB=lpalib_dataset             VOL=volume
  servitem1 servitem2 servitem3 servitem4 servitem5
  servitem6 servitem7.....servitemn
ECSA STORAGE: ecsabytes          OMVS STORAGE: omvsbytes
```

In response to a DISPLAY OMVS,ACTIVATE=SERVICE operator command, this message displays information about service items that are have been activated dynamically.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the */etc/init* or */usr/sbin/init* program to complete initialization.

**FORK SHUTDOWN**

FORK Service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

**| SHUTDOWN BLOCKED**

z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.

**| SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

**parmmemberlist**

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

**LINKLIB=linklib\_dataset**

Displays the target LINKLIB target data set from which the service items were activated.

**VOL=volume**

The volume from which the service item was activated.

**LPALIB=lpalib\_dataset**

Displays the target LPALIB target data set from which the service items were activated.

**serviceitemn**

Displays dynamically activated service items.

**ECSA STORAGE: ecsabytes**

The number of bytes of ECSA storage consumed by all dynamically activated service items.

**OMVS STORAGE: omvsbytes**

The number of bytes in the OMVS address space private area consumed by all dynamically activated service items.

**System action:** The system continues processing.

**Operator response:** None

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:**

**Routing Code:** -

**Descriptor Code:** -

**BPXO060I hh.mm.ss DISPLAY OMVS***text***Explanation:** In the message, *text* is as follows:

```
procname kernalasid status parmmemberlist
          AF_UNIX Domain Sockets

JOBNAME   ID    PEER ID STATE    READ    WRITTEN
-----  -----
jobname id      peerid state  readbyte writebyte
jobname id      peerid state  readbyte writebyte
[Socket name: socketname]
[Peer name: peersocketname]
jobname id      peerid state  readbyte writebyte
[Socket name: socketname]
[Peer name: peersocketname]
jobname id      peerid state  readbyte writebyte
[Socket name: socketname]
[Peer name: peersocketname]
```

In response to a DISPLAY OMVS,Sockets (D OMVS,SO) operator command, this message displays information about the AF\_UNIX family of sockets along with their users and sessions.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the /etc/init or /usr/sbin/init program to complete initialization.

**FORK SHUTDOWN**

FORK Service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

**| SHUTDOWN BLOCKED**

z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.

**SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

*parmmemberlist*

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

*jobname*

The job name of the process that owns the socket.

*id* The inode number of the socket, in hexadecimal.*peerid*

The inode number of a connected socket's peer socket.

*state*

The socket state, which is one of the following:

**LISTEN**

A server TCP stream socket that accepts connections.

**DGRAM**

A UDP datagram socket.

**ACP**

An accepted stream socket.

**CONN**

a connected stream socket

**STRM**

An unconnected stream socket.

*readbyte*

The number of bytes read on this socket, in hexadecimal. For a server socket, this value is the number of connections that have been accepted. After 4G, this value wraps.

*writebyte*

The number of bytes written on this socket, in hexadecimal. After 4G, this value wraps.

**Socket name: socketname**

The name this socket was bound to, if any.

**Peer name: peersocketname**

The name of the socket this socket is connected to, if it is connected and if the peer socket has a name.

**System action:** The system continues processing.**Operator response:** None**System programmer response:** None.**Source:** z/OS UNIX System Services kernel (BPX)**Detecting Module:** BPXOMAST**Routing Code:** -**Descriptor Code:** -

**BPXO063I hh.mm.ss DISPLAY OMVS***text***Explanation:** In the message, *text* is as follows:

```

procname kernalasid status parmmemberlist
MOUNT LATCH ACTIVITY:
USER ASID TCB REASON AGE
-----
HOLDER:
user asid tcb reason age
IS DOING: activity / [pfs_qualifier]

FILE SYSTEM: file_system_name
HOLDING: File System Latch latchno SHR|EXCL

WAITER(S):
user asid tcb reason age
user asid tcb reason age
.
.
.
user asid tcb reason age

OUTSTANDING CROSS SYSTEM MESSAGES:
SENT SYSPLEX MESSAGES:
USER ASID TCB FCODE MEMBER REQID MSG TYPE AGE
-----
user asid tcb fcode member reqid msg_type age
FILE: file_name (devno,ino)
HOLDING: File System Latch latchno SHR|EXCL
user asid tcb fcode member reqid msg_type age
.
.
.
user asid tcb fcode member reqid msg_type age

RECEIVED SYSPLEX MESSAGES:
FROM FROM FROM
ON TCB ASID TCB FCODE MEMBER REQID MSG TYPE AGE
-----
on_tcb asid tcb fcode member reqid msg_type age
IS DOING: activity / [pfs_qualifier]
FILE: file_name (devno,ino)
FILE SYSTEM: file_system_name
HOLDING: File System Latch latchno SHR|EXCL

FILE SYSTEM LATCH ACTIVITY:
USER ASID TCB SHR|EXCL AGE
-----
LATCH latchno FILE SYSTEM: file_system_name
HOLDER(S):
user asid tcb SHR|EXCL age
IS DOING: activity / [pfs_qualifier]
FILE: file_name (devno,ino)
WAITER(S):
user asid tcb SHR|EXCL age
.
.

OTHER WAITING THREADS:
USER ASID TCB PID AGE
-----
user asid tcb pid age
IS DOING: activity / [pfs_qualifier]
FILE: file_name (devno,ino)
FILE SYSTEM: file_system_name
HOLDING: File System Latch latchno SHR|EXCL
.
.
.
```

- | In response to a DISPLAY OMVS,WAITERS (D OMVS,W) operator command, this message displays information about delays caused by:
  - Mount latch contention.
  - Outstanding sysplex messages. When a system sends a sysplex messages to another sysplex member, the sending system then waits for the outstanding reply message. If the reply is not sent, the user or system task on the sending system hangs.
  - File system contention.

- | • Other reasons.

You can use the information displayed to figure out what tasks are hung, and what they are waiting for.

In the message text:

*hh.mm.ss*

The time in hours (00–23), minutes (00–59), and seconds (00–59) for the DISPLAY OMVS command.

*procname*

The name of the z/OS UNIX cataloged procedure.

*status*

One of the following:

**ACTIVE**

z/OS UNIX is currently active.

**NOT STARTED**

z/OS UNIX was not started.

**INITIALIZING**

z/OS UNIX is initializing.

**TERMINATING**

z/OS UNIX is terminating.

**TERMINATED**

z/OS UNIX has terminated.

**ETC/INIT WAIT**

z/OS UNIX is waiting for the */etc/init* or */usr/sbin/init* program to complete initialization.

**FORK SHUTDOWN**

FORK Service has been shutdown.

**SHUTTING DOWN**

z/OS UNIX is shutting down.

**SHUTDOWN BLOCKED**

z/OS UNIX shutdown processing is blocked by one or more jobs, and it waits for all of the blockers to unblock or terminate.

**SHUTDOWN**

z/OS UNIX is shut down.

**RESTARTING**

z/OS UNIX is restarting after a shut down.

*parmmemberlist*

The parmlib member name list specified on the SET OMVS command or on the initialization of OMVS.

**MOUNT LATCH ACTIVITY:  
USER ASID TCB REASON AGE**

This section shows what user and task is holding the mount latch (HOLDERS:), and what users are waiting for it (WAITERS).

*user*

The user ID of the address space.

*asid*

The address space ID.

*tcb* The task.

*reason*

A short description of what the end user action that the user or task is doing. *reason* is one of the following:

Accessing CDS	FileSys Quiesce	Module Cleanup
AutoMnt vnLookup	FileSys UnQuiesce	Mount Catchup
BHR Async Mount	FileSys Export	Move Filesystem
Blocking Utility	FileSys UnExport	PFS Termination
Check FS Latches	FileSys Diag & Fix	Post MXRH Waiter
Couple DS Switch	FileSys Re-Init	ReMount Filesys
Diag & Fix CDS	Get BRLM locks	Sysplex Scheduler
FileSys Mount	Inact Cycle	Unknown
FileSys Unmount	Init PFS Control	Update Client VFS
FileSys Sync yes	MemberGone Rcvry	VerifyServiceLvl

*age*

The amount of time the user has held the mount latch for HOLDERS, or the amount of time users have waited for the mount latch for waiters. If the time exceeds 99 hours, two asterisks (\*\*) appear in the hour position.

**IS DOING:** *activity / [pfs\_qualifier]*

*activity*

Description of what the holding task is doing. *activity* is displayed as either:

- A wait, such as a Latch Wait
- The type of physical file system (PFS) and the operation that the task was called to do, such as READ, WRITE, MOUNT, or FSYNCH

*pfs\_qualifier*

If the *activity* field shows a PFS, the *pfs\_qualifier* field shows what the PFS is doing. For example, *pfs\_qualifier* might show:

- Running - If the *pfs\_qualifier* field shows Running for very long, it probably indicates that the thread is in a PFS wait that cannot be detected by DISPLAY OMVS.
- Osi Wait
- XSYS Message to: *sysname*

**FILE SYSTEM:** *file\_system\_name*

The name of the file system involved, if any.

**HOLDING: File System Latch** *latchno SHRIEXCL*

A file system latch is held by this thread.

*latchno*

The latch number that corresponds to the latch shown by DISPLAY GRS.

**SHRIEXCL**

Whether the latch is held in shared or exclusive mode.

**OUTSTANDING CROSS SYSTEM MESSAGES:  
SENT SYSPLEX MESSAGES:**

## USER ASID TCB FCODE MEMBER REQID MSG

### TYPE AGE

This section displays information about the broadcast messages sent to another system in the sysplex for which no reply was yet received.

*user*

The user ID of the address space.

*asid*

The address space ID.

*tcb* The task.

*fcode*

The function code being sent.

*member*

The sysplex member name of the system or systems that sent the message and from which a reply is outstanding. As replies are received for broadcast messages, member names are removed from the list.

*reqid*

The unique request ID of this message. You can use this value to find the message in the display of RECEIVED SYSPLEX MESSAGES on the system that sent the message.

*msg\_type*

The function that the message is performing.

*age*

The amount of time the task has been waiting for a reply. If the time exceeds 99 hours, two asterisks (\*\*) appear in the hour position.

**FILE:** *file\_name (devno,ino)*

For operations on a specific file, this line shows the following information:

*file\_name*

Up to 16 characters of the file name when this information is available.

*devno*

The device number of the file.

*ino* The inode number of the file.

**HOLDING: File System Latch** *latchno SHRIEXCL*

A file system latch is held by this thread.

*latchno*

The latch number that corresponds to the latch shown by Display GRS.

**SHRIEXCL**

Whether the latch is held in shared or exclusive mode.

## RECEIVED SYSPLEX MESSAGES:

*on\_tcb asid tcb fcode member reqid msg\_type age*

This section displays the sysplex messages that have arrived at this system, but that were not yet responded to.

***on\_tcb***

The worker's task TCB address in the OMVS address space.

**FROM *asid***

The address space ID of the message sender.

**FROM *tcb******fcode***

The function code that arrived to be processed.

**FROM *member***

The sysplex member name of the system sending the message.

***reqid***

The unique request ID of this message. You can use this value to find the message in the display of RECEIVED SYSPLEX MESSAGES on the system that sent the message.

***msg\_type***

The function that the message is performing.

***age***

The amount of time the worker task has been processing the message. If the time exceeds 99 hours, two asterisks (\*\*) appear in the hour position.

**IS DOING: *activity* / [*pfs\_qualifier*]*****activity***

Description of what the worker task is doing. *activity* is displayed as either:

- A wait, such as a Latch Wait
- The type of physical file system (PFS) and the operation that the task was called to do, such as READ, WRITE, MOUNT, or FSYNCH

***pfs\_qualifier***

If the *activity* field shows a PFS, the *pfs\_qualifier* field shows what the PFS is doing. For example, *pfs\_qualifier* might show Running, Osi Wait or XSYS Message to: *sysname*.

If the *pfs\_qualifier* field shows Running for very long, it probably indicates that the thread is in a PFS wait that cannot be detected by DISPLAY OMVS.

**FILE: *file\_name* (*devno,ino*)**

For operations on a specific file, this line shows the following information:

***file\_name***

Up to 16 characters of the file name when this information is available.

***devno***

The device number of the file.

***ino***

The inode number of the file.

**FILE SYSTEM: *file\_system\_name***

The name of the file system involved, when available.

**HOLDING: File System Latch *latchno* SHRIEXCL**

A file system latch is held by this thread.

***latchno***

The latch number that corresponds to the latch shown by Display GRS.

**SHRIEXCL**

Whether the latch is held in shared or exclusive mode.

**FILE SYSTEM LATCH ACTIVITY:****USER ASID TCB SHR/EXCL AGE**

This section shows information for file system latches. It shows what user and task is holding the latch (HOLDERS), and what users are waiting for it (WAITERS).

**LATCH *latchno***

A file system latch is held by this thread.

***latchno***

The latch number that corresponds to the latch shown by Display GRS.

**FILE SYSTEM: *file\_system\_name***

The name of the file system involved, when available.

**HOLDER(S): *user asid tcb* SHRIEXCL *age***

The file system holding the latch:

***user***

The user ID of the address space.

***asid***

The address space ID.

***tcb***

The task.

**SHRIEXCL**

Whether the latch is held in shared or exclusive mode.

***age***

The amount of time the user has held the file system latch for HOLDERS. If the time exceeds 99 hours, two asterisks (\*\*) appear in the hour position.

**IS DOING: *activity* / [*pfs\_qualifier*]*****activity***

Description of what the holding task is doing. *activity* is displayed as either:

- A wait, such as a Latch Wait
- The type of physical file system (PFS) and the operation that the task was called to do, such as READ, WRITE, MOUNT, or FSYNCH

***pfs\_qualifier***

If the *activity* field shows a PFS, the

	<p><i>pfs_qualifier</i> field shows what the PFS is doing. For example, <i>pfs_qualifier</i> might show:</p> <ul style="list-style-type: none"> <li>• Running - If the <i>pfs_qualifier</i> field shows Running for very long, it probably indicates that the thread is in a PFS wait that cannot be detected by DISPLAY OMVS.</li> <li>• Osi Wait</li> <li>• XSYS Message to: <i>sysname</i></li> </ul>		<ul style="list-style-type: none"> <li>• A wait, such as HSM recall when the task is waiting on an HSM recall</li> <li>• The type of physical file system (PFS) and the operation that the task was called to do, such as READ, WRITE, MOUNT, or FSYNCH</li> </ul>
	<p><b>FILE: <i>file_name (devno,ino)</i></b></p> <p>For operations on a specific file, this line shows the following information:</p> <p><i>file_name</i> Up to 16 characters of the file name when this information is available.</p> <p><i>devno</i> The device number of the file.</p> <p><i>ino</i> The inode number of the file.</p>		<p><b><i>pfs_qualifier</i></b></p> <p>If the <i>activity</i> field shows a PFS, the <i>pfs_qualifier</i> field shows what the PFS is doing. For example, <i>pfs_qualifier</i> might show:</p> <ul style="list-style-type: none"> <li>• Running - If the <i>pfs_qualifier</i> field shows Running for very long, it probably indicates that the thread is in a PFS wait that cannot be detected by DISPLAY OMVS.</li> <li>• Osi Wait</li> <li>• XSYS Message to: <i>sysname</i></li> </ul>
	<p><b>WAITER(S): <i>user asid tcb SHRIEXCL age</i></b></p> <p>The file system holding the latch:</p> <p><i>user</i> The user ID of the address space.</p> <p><i>asid</i> The address space ID.</p> <p><i>tcb</i> The task.</p>		<p><b>FILE: <i>file_name (devno,ino)</i></b></p> <p>For operations on a specific file, this line shows the following information:</p> <p><i>file_name</i> Up to 16 characters of the file name when this information is available.</p> <p><i>devno</i> The device number of the file.</p> <p><i>ino</i> The inode number of the file.</p>
	<p><b>SHRIEXCL</b> Whether the latch is held in shared or exclusive mode.</p> <p><i>age</i> The amount of time users have waited for the file system latch for waiters. If the time exceeds 99 hours, two asterisks (**) appear in the hour position.</p>		<p>When the waiter is waiting on an HSM recall, the <i>file_name</i> will show the directory created by automount, but the <i>devno</i> and <i>ino</i> are unavailable because these numbers are not known until the file system is mounted.</p>
	<p><b>OTHER WAITING THREADS: USER ASID TCB PID AGE</b></p> <p>This section shows the remaining waiters that are waiting for reasons other than the mount latch, outstanding sysplex messages, or file system latch.</p> <p><i>user</i> The user ID of the address space.</p> <p><i>asid</i> The address space ID.</p> <p><i>tcb</i> The task.</p> <p><i>pid</i> The process ID.</p> <p><i>age</i> The amount of time the user has been waiting. If the time exceeds 99 hours, two asterisks (**) appear in the hour position.</p>		<p><b>FILE SYSTEM: <i>file_system_name</i></b> The name of the file system involved, when available.</p> <p><b>HOLDING: File System Latch <i>latchno SHRIEXCL</i></b> A file system latch is held by this thread.</p> <p><i>latchno</i> The latch number that corresponds to the latch shown by DISPLAY GRS.</p> <p><b>SHRIEXCL</b> Whether the latch is held in shared or exclusive mode.</p>
			<p><b>System action:</b> The system continues processing.</p> <p><b>System programmer response:</b> Use the displayed information to determine if user's are hung or waiting for either a mount latch or for replies to sysplex messages. If some tasks appear to be deadlocked, you can use the information in the display to figure out which tasks to cancel, in order to clear up the deadlock.</p>
			<p><b>Source:</b> z/OS UNIX System Services kernel (BPX)</p> <p><b>Detecting Module:</b> BPXOMAST</p> <p><b>Routing Code:</b> -</p> <p><b>Descriptor Code:</b> -</p>

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**BPXP001I OPENMVS INIT PROCESS CANNOT BE CREATED. FAILURE REASON CODE = *reason\_code*. APPC/MVS RETURN CODE = *return\_code*.**

**Explanation:** The system encountered an error while creating the first z/OS UNIX process, which is the INIT process.

In the message text:

*reason\_code*

The failure reason code from z/OS UNIX.

*return\_code*

The return code from APPC/MVS. The APPC/MVS return code may be 0 if the failure is not related to APPC. See *z/OS MVS Programming: Writing Transaction Programs for APPC/MVS* for information on the return code.

**System action:** The system ends the z/OS UNIX initialization.

**Operator response:** None.

**System programmer response:** Examine the failure reason code and APPC/MVS return code. If the failure is related to APPC/MVS, verify that APPC/MVS and the APPC/MVS scheduler are operating. Correct the problem before restarting z/OS UNIX.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRFC, BPXPRFK

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXP002I**

**Explanation:** The system encountered an error while creating the first z/OS UNIX process, which is the INIT process.

In the message text:

*reason\_code*

The failure reason code from z/OS UNIX.

*return\_code*

The return code from APPC/MVS. The APPC/MVS return code may be 0 if the failure is not related to APPC. See *z/OS MVS Programming: Writing Transaction Programs for APPC/MVS* for information on the return code.

**System action:** The system ends the z/OS UNIX initialization.

**Operator response:** None.

**System programmer response:** Examine the failure reason code and APPC/MVS return code. If the failure is related to APPC/MVS, verify that APPC/MVS and the APPC/MVS scheduler are operating. Correct the problem before restarting z/OS UNIX.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRFC, BPXPRFK

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXP003E OPENMVS INIT PROCESS CANNOT BE STARTED. AN ERROR OCCURRED DURING APPC PROCESSING. APPC RETURN CODE = *returncode*. VERIFY APPC AND APPC SCHEDULER ARE OPERATIVE, OR ENTER FORCE *jobname*,ARM TO END PROCESSING.**

**Explanation:** An error was reported by APPC/MVS during initialization of z/OS UNIX. The error may be caused by one or more of the following reasons:

1. APPC/MVS is not operating.
2. The APPC/MVS scheduler is not operating.
3. The APPC/MVS scheduler is malfunctioning.
4. APPC/MVS configuration work was not done correctly when z/OS UNIX was installed. The ASCHPMxx members may not have been updated to define the APPC/MVS scheduler class name used for z/OS UNIX, or the APPC/MVS scheduler may have been started with an incorrect member that does not have the class name.

In the message text:

*returncode*

The error return code from APPC/MVS. *z/OS MVS Programming: Writing Transaction Programs for APPC/MVS* provides more details on the APPC/MVS return code.

*jobname*

The name of the job by which z/OS UNIX will be terminated with the FORCE ARM command.

**System action:** The system waits for the APPC/MVS error condition to be corrected, or until the operator issues the FORCE ARM command to terminate the START z/OS UNIX request.

**Operator response:** Issue the FORCE ARM command to terminate the z/OS UNIX START request, if necessary.

**System programmer response:** Verify that APPC/MVS is operating by issuing a DISPLAY APPC command. Verify that the APPC/MVS scheduler is operating by issuing a DISPLAY ASCH command. If the scheduler is operating, verify that it has been started correctly with the proper member name.

If this is the first time you are initializing z/OS UNIX, verify that the ASCHPMxx member has been updated to define the APPC/MVS scheduler class name used for z/OS UNIX.

If the problem cannot be resolved quickly, end the

## BPXP004E • BPXP006E

initialization by asking the operator to issue the FORCE ARM command against z/OS UNIX. Ask the operator to start z/OS UNIX after the problem is resolved.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRFK

**Routing Code:** 1,10

**Descriptor Code:** 11

---

**BPXP004E FORK PROCESSING FAILED. AN ERROR OCCURRED DURING APPC PROCESSING. APPC RETURN CODE = *returncode*. VERIFY THAT APPC AND APPC SCHEDULER ARE OPERATIVE.**

**Explanation:** APPC/MVS reported an error during fork processing. The error may be caused by one or more of the following reasons:

1. APPC/MVS is not operating.
2. The APPC/MVS scheduler is not operating.
3. The APPC/MVS scheduler is malfunctioning.
4. APPC/MVS configuration work was not done correctly when z/OS UNIX was installed. The ASCHPMxx members may not have been updated to define the APPC/MVS scheduler class name used for z/OS UNIX, or the APPC/MVS scheduler may have been started with an incorrect member that does not have the class name.

In the message text:

*returncode*

The error return code from APPC/MVS. *z/OS MVS Programming: Writing Transaction Programs for APPC/MVS* provides more details on the APPC/MVS return code.

**System action:** The system requires APPC/MVS to be functioning in order to process fork requests.

**Operator response:** Contact the system programmer.

**System programmer response:** Verify that APPC/MVS is operating by issuing a DISPLAY APPC command. Verify that the APPC/MVS scheduler is operating by issuing a DISPLAY ASCH command. If the scheduler is operating, verify that it has been started correctly with the proper member name.

If this is the first time you are initializing z/OS UNIX, verify that the ASCHPMxx member has been updated to define the APPC/MVS scheduler class name used for z/OS UNIX.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRFK

**Routing Code:** 1,10

**Descriptor Code:** 11

---

**BPXP005I A FORK OR SPAWN ERROR WAS ENCOUNTERED. RETURN CODE *return\_code* REASON CODE *reason\_code***

**Explanation:** The system encountered an error while performing the fork or the spawn.

In the message text:

*return\_code*

The failure return code.

*reason\_code*

The failure reason code. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The system ends the process.

**Operator response:** Contact the system programmer.

**System programmer response:** Examine the return and reason code for the service that ended in error to determine the reason for the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRFP, BPXPRSPN

**Routing Code:** -

**Descriptor Code:** 4

---

**BPXP006E *procname IS text***

**Explanation:** z/OS UNIX initialization processing seems to be taking an excessive amount of time to complete. The message identifies the last initialization step to have been successfully started and therefore, the one most likely responsible for any delays or hangs.

In the message text:

*procname*

The name of the z/OS UNIX cataloged procedure.

*text*

One of the following:

### INITIALIZING THE FILE SYSTEM

Indicates that z/OS UNIX initialization has started the initialization of the file system, but the file system initialization has not yet completed.

### CREATING THE BPXOINIT ADDRESS SPACE

Indicates that z/OS UNIX initialization has issued a system request to create the BPXOINIT address space, but the address space has not yet started.

### PROCESSING IN BPXOINIT

Indicates that BPXOINIT has started processing but BPXOINIT has not yet started the initialization process (either the initialization REXX EXEC, /etc/init, or /usr/sbin/init).

**STARTING THE INITIALIZATION PROCESS**

Indicates that BPXOINIT is attempting to fork an address space in which to run the initialization process (either the initialization REXX EXEC, /etc/init, or /usr/sbin/init) but the fork has not yet completed.

**RUNNING THE INITIALIZATION PROCESS**

Indicates that BPXOINIT has started the initialization process (either the initialization REXX EXEC, /etc/init, or /usr/sbin/init) but the initialization process has not yet completed.

Some commands can cause hangs in the /etc/rc process, invoked from /etc/init, thus resulting in the issuance of this message. If the set -v -xcommand has been added to /etc/rc (it is shipped in the sample /etc/rc), the system programmer may view /etc/log during a hang in /etc/rc by starting the shell from a superuser and issuing the command cat /etc/log. Note that it must be a superuser; a user having permission to BPX.SUPERUSER is not enough. The last command listed in /etc/log is most likely the one causing the hang or delay.

**WAITING FOR SECURITY PRODUCT  
INITIALIZATION**

Indicates that z/OS UNIX initialization is waiting for the security product to complete initialization.

**WAITING FOR CATALOG ADDRESS SPACE  
INITIALIZATION**

Indicates that z/OS UNIX initialization is waiting for the catalog address space to complete initialization.

**WAITING FOR JOB ENTRY SUBSYSTEM  
INITIALIZATION**

Indicates that z/OS UNIX initialization is waiting for the job entry subsystem (JES) to complete initialization.

**OMVS IS UNABLE TO CREATE THE BPXOINIT  
ADDRESS SPACE**

The address space create of the BPXOINIT address space failed because there were not enough system resources to complete the process. The OMVS address space initialization could not complete.

**System action:** The initialization process is allowed to continue, unless the message indicates that the BPXOINIT address space could not be initialized. In this case, initialization processing is discontinued.

**Operator response:** If the condition persists, contact the system programmer.

**System programmer response:** If the message indicates that the BPXOINIT address space cannot be created, shutdown OMVS and attempt to correct the system resource problem that could be causing the failure. Restart OMVS after correcting the problem.

Otherwise, contact the IBM Support Center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMISDI

**Routing Code:** 1,10

**Descriptor Code:** 11

**BPXP007E STARTING PHYSICAL FILE SYSTEM  
*pfsname* IN ADDRESS SPACE  
*spacename***

**Explanation:** z/OS UNIX file system initialization processing seems to be taking an excessive amount of time to complete. The message identifies the physical file system currently being processed.

In the message text:

*pfsname*

The name associated with the physical file system.

**IN ADDRESS SPACE**

*spacename*

The name of the address space processing the physical file system initialization, if it is other than the kernel. If it is the kernel, this field is blank.

**System action:** No action is taken. Initialization processing is allowed to continue.

**Operator response:** If the condition persists, contact the system programmer.

**System programmer response:** Contact the IBM support center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMISDI

**Routing Code:** 1,10

**Descriptor Code:** 11

**BPXP008E MOUNTING THE FILE SYSTEM *name***

**Explanation:** z/OS UNIX file system initialization processing seems to be taking an excessive amount of time to complete. The message identifies the file system currently being mounted.

In the message text:

*name*

The file system name specified on the MOUNT or ROOT statement in the BPXPRMxx parmlib member is either the name of the file system (FILESYSTEM parameter), or the name of the DD statement (DDNAME parameter) used to allocate it.

**System action:** No action is taken. Initialization processing is allowed to continue.

**Operator response:** If the condition persists, contact the system programmer.

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**System programmer response:** Contact the IBM support center.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMISDI

**Routing Code:** 1,10

**Descriptor Code:** 11

---

**BPXP009I** THREAD *threadid*, IN PROCESS *pid*, ENDED ABNORMALLY WITH COMPLETION CODE *compcode*, REASON CODE *reasoncode*.

**Explanation:** This message is written to the hardcopy log when a task terminates abnormally. This message may be captured to a joblog in the HFS by using the \_BPXK\_JOBLOG environment variable.

In the message text:

*threadid*

The thread ID, in hexadecimal, of the terminating thread.

*pid* The process ID, in decimal, of the process containing the terminating thread.

*compcode*

The task completion code and indicator flags, in hex, from the TCBCMP field of the terminating TCB. This field has the form of *ffsssuuu*, where *ff* are the indicator flags, *sss* is the system completion code and *uuu* is the user completion code.

*reasoncode*

The reason code, in hexadecimal, associated with task completion code. For an explanation of the reason code, see *z/OS MVS System Codes*.

**System action:** No action is taken. Termination processing continues.

**User response:** If the abnormal condition is unexpected, use the completion code and associated reason code to determine the cause of the abnormal termination.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXRRTRM

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXP010I** THREAD *threadid1*, IN PROCESS *pid1*, WAS TERMINATED BY SIGNAL *signal*, SENT FROM THREAD *threadid2*, IN PROCESS *pid2*, UID *uid*.

**Explanation:** This message is written to the hardcopy log when a task terminates due to a signal. This

message may be captured to a joblog in the HFS by using the \_BPXK\_JOBLOG environment variable.

In the message text:

*threadid1*

The thread ID, in hexadecimal, of the terminating thread.

*pid1*

The process ID, in decimal, of the process containing the terminating thread.

*signal*

The name of the signal causing the termination.

*threadid2*

The thread ID, in hexadecimal, of the thread sending the terminating signal, or zero if not available.

*pid2*

The process ID, in decimal, of the process containing the thread sending the terminating signal, or zero if not available.

*uid* The real user ID, in decimal, associated with the process containing the thread sending the terminating signal, or zero if not available.

**System action:** No action is taken. The terminating signal is delivered.

**User response:** If the terminating signal is unexpected, use the thread and process IDs to determine the cause of the signal.

**Operator response:** None.

**System programmer response:** If the terminating

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXNSDLV

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXP011I** THREAD *threadid*, IN PROCESS *pid*, WAS TERMINATED DUE TO A PTHREAD QUIESCE OF TYPE *type*.

**Explanation:** This message is written to the hardcopy log when a task terminates due to a pthread quiesce request. This message may be captured to a joblog in the HFS by using the \_BPXK\_JOBLOG environment variable.

In the message text:

*threadid*

The thread ID, in hexadecimal, of the terminating thread.

*pid* The process ID, in decimal, of the process containing the terminating thread.

***type***

The type of pthread quiesce. The quiesce type values are defined in the BPXYCONS macro.

**System action:** No action is taken. Termination processing continues.

**User response:** If the pthread quiesce is unexpected, try to determine the cause of the quiesce.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXRRTRM

**Routing Code:** 11

**Descriptor Code:** 6

**BPXP012I {FORKISPAWN} SYSCALL TERMINATED DURING CHILD PROCESSING WITH RETURN CODE *returncode*, REASON CODE *reasoncode*. THE CHILD PROCESS IS *pid1* IN ASID *asid1*. THE PARENT PROCESS IS *pid2*, UID *uid*, IN ASID *asid2*.**

**Explanation:** This message is written to the hardcopy log when fork child processing terminates due to an error. This message may be captured to a joblog in the HFS by using the \_BPXK\_JOBLOG environment variable.

In the message text:

***returncode***

The return code, in hexadecimal, associated with the fork error.

***reasoncode***

The reason code, in hexadecimal, associated with the fork error. For an explanation of the return code and reason code, see *z/OS UNIX System Services Messages and Codes*.

***pid1***

The process ID, in decimal, of the child process.

***asid1***

The address space ID, in hexadecimal, of the child process.

***pid2***

The process ID, in decimal, of the parent process, or zero if not available.

***uid*** The real user ID, in decimal, associated with the parent process, or zero if not available.

***asid2***

The address space ID, in hexadecimal, of the parent process, or zero if not available.

**System action:** No action is taken. The child process terminates.

**User response:** Use the return code and reason code to determine the cause of the fork error.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRFC

**Routing Code:** 11

**Descriptor Code:** 6

**BPXP013I THREAD *threadid*, IN PROCESS *pid*, WAS TERMINATED BY SIGNAL *signal*, DUE TO CPU TIME OUT.**

**Explanation:** This message is written to the hardcopy log when a task terminates due to a CPU time out signal. This message may be captured to a joblog in the HFS by using the \_BPXK\_JOBLOG environment variable.

In the message text:

***threadid***

The thread ID, in hexadecimal, of the terminating thread.

***pid*** The process ID, in decimal, of the process containing the terminating thread.

***signal***

The name of the signal causing the termination.

**System action:** No action is taken. The terminating signal is delivered.

**User response:** If the terminating signal is unexpected, use the thread and process IDs to determine the cause of the CPU time out.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXNSDLV

**Routing Code:** 11

**Descriptor Code:** 6

**BPXP014I ENVIRONMENT MUST *envirstate* CONTROLLED FOR *text* PROCESSING.**

**Explanation:** The program environment was incompatible with the operation attempted. The environment must stay controlled because sensitive processing and or data may exist. There was an attempt to load a program that is not program controlled. Only program controlled programs are allowed to be loaded or executed.

In the message text:

***envirstate***

**REMAIN**

The environment was controlled and required to remain controlled for sensitive (server or daemon) processing. An operation was attempted that would have caused the environment to become uncontrolled.

**BE** The environment was uncontrolled and an operation was attempted that required the environment to be controlled (server or daemon processing).

*text*

One of the following:

**SERVER (BPX.SERVER)**

Environment must remain or be controlled for server processing.

**DAEMON (BPX.DAEMON)**

Environment must remain or be controlled for daemon processing.

**System action:** The request is denied.

**User response:** Check for additional messages that identify the uncontrolled program and the reason it is considered uncontrolled. Try another environment that does not require program control or make the program controlled (see message 308).

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCHK

**Routing Code:** -

**Descriptor Code:** -

---

**BPXP015I HFS PROGRAM *pathname* IS *text*.**

**Explanation:** The HFS program specified by path was not program controlled. If the environment must remain controlled, the program could not be loaded or executed. If the environment was not required to remain controlled the program was loaded or executed but caused the environment to become uncontrolled.

In the message text:

*pathname*

The path name, truncated to 150 characters (truncation occurs from the left), of the program that caused or would have caused the environment to become uncontrolled.

*text*

One of the following:

**NOT MARKED PROGRAM CONTROLLED.**

The HFS program specified by path does not have the PROGCTL extended attribute.

**FROM A FILE SYSTEM MOUNTED WITH THE NOSETUID ATTRIBUTE**

The file system containing the program specified by the path name is mounted with the NOSETUID attribute and is considered uncontrolled.

**NOT A TRUSTED MAIN PROGRAM**

The program that is running is not defined to SAF as a trusted main program.

**System action:** The request is denied.

**User response:**

- If the HFS program is not marked program controlled, have an authorized user (permitted to BPX.FILEATTR.PROGCTL) mark the program as program controlled.
- If the HFS program is from a file system mounted with the NOSETUID attribute (considered untrusted) copy it to a file system mounted with the NOSETUID attribute or contact a superuser to remount the file system with the SETUID attribute.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRECP

**Routing Code:** -

**Descriptor Code:** -

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**BPXP016I ENVIRONMENT IS UNCONTROLLED BECAUSE IT IS BEING DEBUGGED (DBX) BY AN UNTRUSTED DEBUGGER**

**Explanation:** The environment is considered uncontrolled because an untrusted debugger (not permitted to BPX.DEBUG) is attached to the environment.

**System action:** The request is denied.

**User response:**

- Try the request again without an untrusted debugger (dbx) attached to the environment.
- Report the message to your security administrator.

**Operator response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXNPREQ

**Routing Code:** -

**Descriptor Code:** -

**Security Administrator Response:** The user attempted a function that required the environment to be program controlled. The environment is considered uncontrolled because an untrusted debugger is debugging the user's environment. Determine if the debugger should be allowed to perform this action and if

so permit them to the BPX.DEBUG facility class profile with READ access.

---

**BPXP017I DEBUGGER IS UNTRUSTED AND IS NOT ALLOWED TO DEBUG A PROGRAM CONTROLLED ENVIRONMENT.**

**Explanation:** The debugger is untrusted (not permitted to BPX.DEBUG) and attempted to debug an environment that must stay program controlled, but is not allowed.

**System action:** The request is denied.

**User response:** Report the message to your security administrator.

**Operator response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRECP

**Routing Code:** -

**Descriptor Code:** -

**Security Administrator Response:** The untrusted user attempted to debug a program controlled environment. Determine if the debugger should be allowed to debug a program controlled environment and if so permit them to the BPX.DEBUG facility class profile with READ access.

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**BPXP018I THREAD *threadid*, IN PROGRESS *pid*, ENDED WITHOUT BEING UNDUBBED WITH COMPLETION CODE *comcode*, AND REASON CODE *reasoncode*.**

**Explanation:** This message is written to the hardcopy log when a task terminates without being undubbed. See *z/OS UNIX System Services Planning* for an explanation of dubbing and undubbing. This message may be captured to a joblog in the HFS by using the \_BPXK\_JOBLOG environment variable.

In the message text:

*threadid*

The thread ID, in hexadecimal, of the terminating thread.

*pid* The process ID, in decimal, of the process containing the terminating thread.

*comcode*

The task completion code and indicator flags, in hex, from the TCBCMP field of the terminating TCB. This field has the form of *ffsssuuu*, where *ff* are the indicator flags, *sss* is the system completion code and *uuu* is the user completion code.

*reasoncode*

The reason code, in hex, from the TCBARC field of the terminating TCB, that is associated with task completion code. For an explanation of the reason

code, when the system completion code is non-zero, see *z/OS UNIX System Services Messages and Codes*. When the user completion code is non-zero, see documentation for the component, subsystem, or product that issued the user completion code for an explanation of the user completion code and associated reason code.

**System action:** No action is taken. Termination processing continues.

**User response:** None.

**Operator response:** None.

**System programmer response:** If the termination without being undubbed is unexpected, use the completion code and associated reason code to determine the cause of the termination.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXRRTRM

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXP019I HFS PROGRAM *pathname* IS *text***

**Explanation:** The HFS program specified by the path was not listed in the APF sanction list. The path name must be added to this list to be loaded or executed.

In the message text:

*pathname*

The path name, truncated to 150 characters (truncation occurs from the left), of the program that caused or would have caused the environment to become uncontrolled.

*text*

One of the following:

**NOT IN THE PROGRAM CONTROLLED PATH LIST.**

The hfs program specified by path name is not listed in the AUTHPGMLIST sanction file under program-controlled entries.

**NOT IN THE AUTHORIZED PROGRAM PATH LIST.**

The hfs program specified by path name is not listed in the AUTHPGMLIST sanction file under authorized program path entries.

**System action:** The request is denied.

**User response:** Take the following actions:

- Determine the filename of the sanction list file. (Perform a D OMVS, O and check the AUTHPGMLIST option.)
- Update this file by adding the path name to the correct list. For authorized program paths, use the list starting with :authprogram\_path. For program control paths, use the list starting with :programcontrol\_path.

## BPXP020I • BPXP022E

- Force this new list to take effect. One way to do this is to use the console command SETOMVS AUTHPGMLIST=*file*, where *file* is the path name of the sanction list.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRECP

**Routing Code:** -

**Descriptor Code:** -

---

### BPXP020I APF PROGRAM *pathname* IS NOT IN THE APF PROGRAM NAME LIST.

**Explanation:** The program name specified by the name was not listed in the APF sanction list. The program name must be added to this list to be loaded or executed.

In the message text:

*pathname*

The program name or the program that caused or would have caused the program environment to be uncontrolled.

**System action:** The request is denied.

**User response:** You should:

- Determine the filename of the sanction list file. (Perform a D OMVS, O and check the AUTHPGMLIST option.)
- Update this file by adding the path name to the correct list. For authorized program NAMEs, use the list starting with :apf*program\_name*.
- Force this new list to take effect. One way to do this is to use the console command SETOMVS AUTHPGMLIST=*file*, where *file* is the path name of the sanction list.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRECP

**Routing Code:** -

**Descriptor Code:** -

---

### BPXP021I WARNING: ENVIRONMENT NEEDS TO *state* CONTROLLED FOR *environment* PROCESSING.

**Explanation:** This message is a warning of a program control problem that is only issued when running in warning mode. The environment needs to stay controlled due to sensitive processing and/or data existing. There was a load done for a program that is

not program controlled. Only program controlled programs should be loaded or executed in this address space.

In the message text:

*state*

One of the following:

#### REMAIN

The environment is currently controlled and is not allowed to become uncontrolled. Uncontrolled programs cannot be loaded or executed at this time.

**BE** The environment is currently uncontrolled and is not allowed to become controlled. Sensitive processing (server or daemon) is not allowed at this time.

*environment*

One of the following:

#### SERVER (BPX.SERVER)

Environment must remain controlled for server processing.

#### DAEMON (BPX.DAEMON)

Environment must remain controlled for daemon processing.

**System action:** None.

**User response:** Check for additional messages that identify the uncontrolled program and the reason it is considered uncontrolled. Make the identified program controlled to allow the processing that requires a controlled environment to run successfully when running with security checking enabled.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXMRCHK

**Routing Code:** -

**Descriptor Code:** -

---

### BPXP022E ONE OR MORE JOBS ARE WAITING FOR UNIX SYSTEM SERVICES AVAILABILITY.

**Explanation:** This message is displayed when one or more jobs are waiting to be processed by Unix System Services. When Unix System Services is starting/restarting or otherwise changing state, it is possible for jobs to end up in this wait condition. The jobs are waiting for Unix System Services to completely process (dub) them.

**System action:** The jobs will wait until Unix System Services is available.

**User response:** None.

**Operator response:** If this message does not eventually disappear then verify that Unix System Services is being started or restarted. Use D OMVS, A=DUBW to find the status of Unix System Services and the identities of the waiting jobs.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRIN1

**Routing Code:** 1,10

**Descriptor Code:** 11

---

**BPXP022I    PROCESS *pid* CHANGED FROM  
SYSMULTI TO A NON-SYSMULTI  
SECLABEL WITH AN OPEN FILE OR  
SOCKET DESCRIPTOR.**

**Explanation:** This message is written to the Security console when a process changing MVS identity changes from a SYSMULTI to a non-SYSMULTI SECLABEL and has open file or socket descriptors. It is possible that the new identity would not have been able to open the files or sockets based on the new SECLABEL.

In the message text:

*pid* The process ID, in decimal, of the process that changed identity.

**System action:** When MLS is active, the system issues this message as a warning to a possible security problem when a daemon tries to pass control to a client via a spawn() or exec(). This message is only issued once per process.

**User response:** None.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRECP

**Routing Code:** 9

**Descriptor Code:** 12

---

**BPXP023I    THREAD *threadid1*, IN PROCESS *pid1*,  
WAS TERMINATED BY SIGNAL *signal*,  
SENT FROM THREAD *threadid2*, IN  
PROCESS *pid2*, UID *uid*, IN JOB  
*jobname*.**

**Explanation:** This message is written to the hardcopy log when a task terminates due to a signal. This message may be captured to a joblog in the HFS by using the \_BPXK\_JOBLOG environment variable.

In the message text:

*threadid1*

The thread ID, in hexadecimal, of the terminating thread.

*pid1*

The process ID, in decimal, of the process containing the terminating thread.

*signal*

The name of the signal causing the termination.

*threadid2*

The thread ID, in hexadecimal, of the thread sending the terminating signal, or zero if not available.

*pid2*

The process ID, in decimal, of the process containing the thread sending the terminating signal, or zero if not available.

*uid*

The real user ID, in decimal, associated with the process containing the thread sending the terminating signal, or zero if not available.

*jobname*

Jobname of the process containing the thread sending the terminating signal.

**System action:** No action is taken. The terminating signal is delivered.

**Operator response:** None.

**Application Programmer Response:** If the terminating signal is unexpected, use the thread and process IDs to determine the cause of the signal.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXNSDLV

**Routing Code:** 11

**Descriptor Code:** 6

---

**BPXP024I    BPXAS INITIATOR STARTED ON  
BEHALF OF JOB *job\_name* RUNNING  
IN ASID *asid***

**Explanation:** A BPXAS initiator was started on behalf of a fork or spawn.

In the message text:

*job\_name*

The job name of the process that did fork or spawn.

*asid*

The address space ID of originating process.

**System action:** The processing continues.

**Operator response:** None.

**Application Programmer Response:** None.

**System programmer response:** None.

## BPXP025I • BPXTF002I

- | **Source:** z/OS UNIX System Services kernel (BPX)
- | **Detecting Module:** BPXPRJSR
- | **Routing Code:** 2
- | **Descriptor Code:** 4

---

**BPXP025I A FORK OR SPAWN ERROR WAS ENCOUNTERED. A RACROUTE REQUEST=VERIFY FAILURE OCCURRED FOR USERID *userid*. SAF RETURN CODE *safrc*, RACF RETURN CODE *return\_code*, RACF REASON CODE *reason\_code*.**

**Explanation:** The system encountered an error verifying the target userid while performing the fork or the spawn.

In the message text:

*userid*

The target userid of the fork or spawn.

*safrc*

The error return code from the security authorization facility (SAF).

*return\_code*

The error return code from the resource access control facility (RACF) or other security product.

*reason\_code*

The error reason code from the resource access control facility (RACF) or other security product.

**System action:** The system ends the process.

**Operator response:** Contact the system programmer.

**System programmer response:** Examine the return and reason code for the RACROUTE REQUEST=VERIFY that ended in error to determine the reason for the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXPRJSR

- | **Routing Code:** 2

- | **Descriptor Code:** 4

---

**BPXTF001I THE MAXSOCKETS VALUE OF *max-sockets-val* ON THE NETWORK STATEMENT IN PARMLIB MEMBER *member-name* EXCEEDS THE MAXIMUM NUMBER OF SOCKETS SUPPORTED BY THE *text***

**Explanation:** During z/OS UNIX initialization, the MAXSOCKETS value on the NETWORK statement exceeded the maximum number of sockets supported by the sockets physical file system.

In the message text:

*max-sockets-val*

The maximum sockets value specified on the NETWORK statement in the BPXPRMxx parmlib member.

*member-name*

The member name processed as a result of the START request.

*text*

One of the following:

**UNIX DOMAIN SOCKETS FILE SYSTEM. A VALUE OF *maximum-sockets* WILL BE USED FOR MAXSOCKETS.**

**INET DOMAIN SOCKETS FILE SYSTEM. A VALUE OF *maximum-sockets* WILL BE USED FOR MAXSOCKETS.**

*maximum-sockets*

The documented maximum number of sockets supported by the sockets physical file system.

**System action:** The sockets physical file system uses the documented value for MAXSOCKETS.

**Operator response:** Contact the system programmer.

- | **System programmer response:** Verify that the MAXSOCKETS value on the NETWORK statement in the BPXPRMxx parmlib member does not exceed the specified *maximum-sockets* value.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTUNWK

- | **Routing Code:** 2,10

- | **Descriptor Code:** 4

---

**BPXTF002I TFS TERMINATION REQUEST ACCEPTED**

**Explanation:** The entered Stop or Modify command has successfully terminated the specified TFS.

**System action:** The system terminates the specified TFS.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTFS

---

**BPXTF002I TFS TERMINATION REQUEST FAILED DUE TO ACTIVE MOUNTS**

**Explanation:** The entered Modify or Stop command attempting to terminate TFS cannot be performed because TFS currently has active mounts.

**System action:** The system ignores the command and continues processing.

**Operator response:** Unmount all TFS file systems

and retry the command or use the Modify command to unconditionally terminate TFS.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTFS

---

**BPXTF003I TFS UNCONDITIONAL TERMINATION REQUEST ACCEPTED**

**Explanation:** The entered Modify command to unconditionally terminate TFS has successfully completed.

**System action:** The system unconditionally terminates the specified TFS.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTFS

---

**BPXTF004I UNSUPPORTED MODIFY COMMAND**

**Explanation:** The entered Modify command is not supported by TFS.

**System action:** The system ignores the command and continues processing.

**Operator response:** Verify the syntax of the command and reissue it correctly.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTFS

---

**BPXTF006I TFS MOUNTED *file\_system***

**Explanation:** TFS has successfully completed mount processing for the specified file system.

In the message text:

*file\_system*  
The name of a file system

**System action:** The system mounts the specified TFS.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTFS

---

**BPXTF007I FILESYSTEM SIZE=*file\_system\_size*  
MAX FILE SIZE=*max\_file\_size***

**Explanation:** This message follows BPXTF006I. It displays information about the file system from the preceding message.

In the message text:

*file\_system\_size*  
The size of the file system.

*max\_file\_size*  
The maximum file size supported by the file system.

**System action:** No action is taken.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTFS

---

**BPXTF008I INVALID MOUNT PARAMETERS IGNORED AT COLUMN *n***

**Explanation:** The PARM keyword value on the mount request contained parameter information that TFS does not support.

In the message text:

*n* The first column that was in error

**System action:** The mount is processed as though the incorrect text had not been entered.

**Operator response:** None.

**System programmer response:** Verify the syntax of the PARM keyword value on the TFS mount command. If any errors exist, correct them and try again. Also, verify that the mount has appropriate attributes for your needs. If the mount does not, the file system must be unmounted and the mount request reissued correctly.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXTFS

---

**BPXU001I VTAM CHANNEL COMMUNICATIONS FAILED. RETURN CODE = *return\_code*  
VTAM RESOURCE NAME = *resourcename*, FUNCTION = *function***

**Explanation:** Unable to establish a connection with the remote partner. An error was reported by VTAM during oeifconfig processing, or during data communications between the local entity and its remote partner. If the error occurred during the oeifconfig processing, the system could not configure or activate the connection to the identified VTAM resource.

In the message text:

## BPXU002I • BPXU003I

### *return\_code*

The return code from the VTAM function call. Return codes from either the OSA adapter card or VTAM may be listed here. This field contains the OSA adapter return code if the listed FUNCTION call has the “OSA-” prefix. Otherwise it contains the VTAM return code. For more information about the OSA adapter return code, see *System z9 and zSeries OSA-Express Customer’s Guide and Reference*. For more information about the VTAM return code, see the chapter “Data Link Control (DLC) Status Codes” in *z/OS Communications Server: SNA Messages*.

### *resourcename*

The name of the VTAM resource specified on the oeifconfig command.

### *function*

The VTAM function call being processed at the time of the error.

**System action:** The identified VTAM resource is not activated. The system processing continues.

**Operator response:** Contact the system programmer.

**System programmer response:** Do the following:

- Verify that the appropriate VTAM TRLE resource definition has been created for the failing VTAM resource.
- Verify that the CTC channel is online and that the “v net,act,xxx” command has been issued for the CTC channel in use.
- Verify that the remote partner has been correctly configured.
- If the problem is an OSA-2 error, correct the error.

After the condition has been rectified, reissue the oeifconfig shell command to activate the VTAM resource.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXUIMPC

**Routing Code:** 2,10

**Descriptor Code:** 4

---

**BPXU002I VTAM CHANNEL COMMUNICATIONS FAILED. RETRY LIMIT EXCEEDED.**  
**VTAM RESOURCE NAME =**  
*resourcename*, **FUNCTION =** *function*

**Explanation:** A retryable error condition was detected during oeifconfig processing. The error was retried. However, the channel initialization process repetitively failed after a preset number of attempts.

In the message text:

### *resourcename*

The name of the VTAM resource specified on the oeifconfig command.

### *function*

The VTAM function call being processed at the time the error occurred.

**System action:** The identified VTAM resource is not activated. The system processing continues.

**Operator response:** Contact the system programmer.

**System programmer response:** Do the following:

- Verify that the appropriate VTAM TRLE resource definition has been created for the failing VTAM resource.
- Verify that the CTC channel is online and that the “v net,act,xxx” command has been issued for the CTC channel in use.
- Verify that the remote partner is online and ready.

After the condition has been rectified, issue the oeifconfig shell command to activate the VTAM resource.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXUIMPC

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXU003I AN IP LAYER CONFIGURATION ERROR WAS DETECTED. VTAM RESOURCE NAME =**  
*resource\_name*, **REASON CODE =** *reason\_code*

**Explanation:** An error was detected during oeifconfig connection process. One or more of the IP layer configuration parameters specified by the remote partner cannot be accepted by the local entity. Note that this message may be asynchronous with the issuance of the oeifconfig command.

In the message text:

### *resource\_name*

The name of the VTAM resource specified on the oeifconfig command.

### *reason\_code*

The z/OS reason code that identifies the error. For an explanation of the reason code, see *z/OS UNIX System Services Messages and Codes*.

**System action:** The identified VTAM resource is not activated. The system processing continues.

**Operator response:** Contact the system programmer.

**System programmer response:** Correct the problem indicated by the reason code and reissue the oeifconfig command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXUIMPC

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXU004I VTAM CHANNEL INITIALIZATION SUCCESSFUL. VTAM RESOURCE NAME = *resourcename***

**Explanation:** A connection with the remote partner, represented by the VTAM resource name, has been successfully established. Data transmission can begin.

In the message text:

*resourcename*

The name of the VTAM resource specified on the oifconfig command.

**System action:** The identified VTAM resource is now activated. The system processing continues.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXUIMPC

**Routing Code:** 2

**Descriptor Code:** 4

---

**BPXW0001I EXEC NOT FOUND.**

**Explanation:** The REXX program could not be found.

**System action:** The REXX program is not run.

**User response:** Check the format of the REXX program and make sure you have permission to run the program. Also, make sure you specified the name with letters in the correct case (upper or lower). If you specified a relative name, check that the program can be found with the PATH environment variable used to run the REXX program.

When an external subroutine or function is called, you may see the IRX0043I (routine not found) message. Make sure the subroutine name is quoted if it contains lowercase or special characters.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWREXC

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXW0001I STORAGE ALLOCATION ERROR.**

**Explanation:** The z/OS UNIX REXX preprocessor could not allocate enough storage to process the REXX program.

**System action:** The REXX program is not run.

**User response:** Check whether the program is looping on a call to an external function or subroutine. Contact your system programmer.

**Operator response:** None.

**System programmer response:** Ensure the region size is sufficient for your application.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWHLD

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXW0002I UNABLE TO READ EXEC.**

**Explanation:** The REXX program could not be read. The usual cause for this is that an I/O error occurred on the read operation.

**System action:** The REXX program is not run.

**User response:** Ensure that the entire file can be read.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWHLD

**Routing Code:** 2

**Descriptor Code:** 2

---

**BPXW0003I IMPROPER TEXT FILE.**

**Explanation:** The HFS file being read by the REXX file I/O routine contains a line that is not terminated by a <newline> character, or contains lines longer than 1024 characters. This file may be the REXX program itself, or a file read by the program using EXECIO with a pseudo-ddname (0-7, stdin, stdout, or stderr). If it is the program itself, execution never begins. If it is EXECIO, the EXECIO service will end with a return code of 20.

**System action:** The requested service fails.

**User response:** Verify the file you are accessing is the file you intended to access and that it is in the correct format. If this error was from an EXECIO command using a pseudo-ddname (0-7, stdin, stdout, or stderr) rather than an allocated DD name, consider either allocating a DD to the path name and using that DD name or the Syscall READ command and performing an appropriate line parse in the REXX program.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWHLD

## BPXW0004I • BPXWM005

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXW0004I PARAMETER STRING TOO LONG.

**Explanation:** The parameter passed to a REXX program exceeds 4096 characters. This is most likely to occur when you run a REXX program under the shell, using shell wildcards to pass a long file list or passing the output of another command as the parameter.

**System action:** The REXX program is not run.

**User response:** Run the REXX program with fewer parameters.

**Operator response:** None.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWREXC

**Routing Code:** 2

**Descriptor Code:** 2

---

### BPXWM000 INCORRECT PATHNAME

**Explanation:** An incorrect pathname was specified.

**System action:** Processing is halted.

**User response:** Reenter the request, supplying the correct pathname.

**System programmer response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM001 UNABLE TO CONNECT TO OMVS.

**ERRNO=varsub var=eno varsub var=rsn.  
THE ONLY SERVICE AVAILABLE IS  
"MAKE A FILE SYSTEM". PRESS  
ENTER TO CONTINUE.**

**Explanation:** The system could not connect to z/OS UNIX System Services. The only available service is Make a File System. Press ENTER to continue.

In the message text:

**varsub var=eno**  
The error number.

**varsub var=rsn**  
The reason code.

**System action:** Processing is halted.

**User response:** See z/OS UNIX System Services Messages and Codes for detailed information on the error number and reason code.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:**

**Routing Code:**

**Descriptor Code:**

---

### BPXWM002 INCORRECT COMMAND

**Explanation:** The command entered was not a valid command.

**System action:** Processing is halted.

**Operator response:** None.

**User response:** Correct the input by entering a valid command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM003 ERRNO=varsub var=eno varsub var=rsn. PRESS ENTER TO CONTINUE.

**Explanation:**

In the message text:

**varsub var=eno**  
The error number.

**varsub var=rsn**  
The reason code.

**System action:** Processing is halted.

**User response:** See z/OS UNIX System Services Messages and Codes for detailed information on the error number and reason code.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM004 PRINTED TO THE ISPF LIST DATA SET.

**Explanation:** The print operation completed and the output was sent to the ISPF list data set.

**System action:** The request completed successfully.

**User response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM005 (NO ERROR TEXT) REASON=errno

**Explanation:** It was not possible to convert the *errno* into an explanation.

In the message text:

**errno**

**System action:** Processing returns to the requestor.

**User response:** See z/OS UNIX System Services

*Messages and Codes* for an explanation of the reason code.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM006 UNABLE TO SET UP USER *varsub* *var=user*. PLEASE MAKE SURE THE GROUP HAS BEEN SET UP AND THE USER HAS BEEN DEFINED.**

**Explanation:** The requested user/group has not been created in the z/OS UNIX System Services configuration.

In the message text:

*varsub var=user*

The user/group name that is not recognized by z/OS UNIX System Services.

**System action:** Processing is halted for the user/group.

**System programmer response:** Investigate why the user/group cannot be created. You may need to contact your system administrator.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM007 *varsub var=user* DEFINED AS U(*varsub var=pwuid*) G(*varsub var=pwgid*) H(*varsub var=pwdiir*) P(*varsub var=pwpgm*)**

**Explanation:** User setup for this user completed successfully.

In the message text:

*varsub var=user*

The characteristics of the named user are displayed.

*varsub var=pwuid*

The user ID associated with the password.

*varsub var=pwgid*

The group ID associated with the password.

*varsub var=pwdiir*

The hierarchy of the directory is displayed.

*varsub var=pwpgm*

The programs that this user is authorized to access.

**System action:** Control is returned to the requestor.

**User response:** None

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM008 UNABLE TO DETERMINE NEXT UID**

**Explanation:** ISHELL is unable to determine the next available UID, and therefore cannot set up a new user.

**System action:** Processing of the request is terminated and control is returned to the requestor.

**User response:** Use commands for your security product to set up new users.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM009 UNAVAILABLE CHOICE**

**Explanation:** The selected choice is not available.

**System action:** Processing of the request is terminated and control is returned to the requestor.

**User response:** Pick one of the available choices.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM010 SETTING UP GROUP *varsub* *var=grname* WITH *GID=varsub var=gid***

**Explanation:** The group ID is being created.

In the message text:

*varsub var=grname*

the groupname for the group.

*varsub var=gid*

The group ID for the group.

**System action:** This is an informational message indicating that the request is being successfully handled.

**User response:** None

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM011 *varsub var=cmd***

**Explanation:** This is an echo of the command being run.

In the message text:

*varsub var=cmd*

The command being run.

**System action:** Processing will be returned to the requestor when completed.

**User response:** None.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

## BPXWM012 • BPXWM021

---

### BPXWM012 DATA SET NOT FOUND

**Explanation:** The requested data set was not found.

**System action:** Processing is returned to the requestor.

**User response:** Verify that the proper name was specified for the data set.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM013 FILE SYSTEM ALREADY EXISTS

**Explanation:** The file system specified already exists.

**System action:** Processing of this request is terminated and control is returned to the requestor.

**User response:** Verify that the correct name was specified on the command.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM014 ALLOCATION FOR FILE SYSTEM FAILED

**Explanation:** The allocation for the requested file system failed.

**System action:** Processing of this request terminates.

**User response:** Check for accompanying error messages that can explain the reason for the allocation failure and correct the values that are causing the error.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM015 UNABLE TO EXECUTE *varsub* *var=pgmpath*

**Explanation:** An error was detected when attempting to execute the pathname specified.

**System action:** Processing of the request terminates.

**User response:** Determine the reason for the failure and correct it.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM016 NOTHING FOUND

**Explanation:** The search found no matches.

**System action:** Processing returns to the requestor.

**User response:** Correct the input supplied, if needed.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM017 UNABLE TO ACCESS *varsub* *var=msgpath* FOR READ

**Explanation:** An error was detected when attempting to read from the pathname specified.

**System action:** Control is returned to the requestor.

**User response:** Verify the reason for the access failure. If this access is required, consult with your system administrator to have the access granted.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM018 FILES ARE IDENTICAL

**Explanation:** The two files are identical.

**System action:** Processing returns to the requestor.

**User response:** None

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM019 MISSING ARGUMENT

**Explanation:** An argument is missing from the request.

**System action:** Control returns to the requestor.

**User response:** Add the missing argument and retry the request.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM020 TIME LIMIT EXCEEDED

**Explanation:** The requested wait time has expired.

**System action:** Control is returned to the requestor.

**User response:** Verify that the request should have completed in the time allotted. If not, consider increasing the time specified.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

### BPXWM021 EXIT STATUS *varsub* *var=code*

**Explanation:** The request completed with the specified code.

*varsub* *var=code*  
The completion code.

**System action:** Control is returned to the requestor.

**User response:** If the code is something other than what was requested, determine the cause of the error and correct it. Then reissue the request.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM022 ENDED BY SIGNAL *vars*<sub>sub</sub> *var*=*code***

**Explanation:** The request was interrupted by the signal specified.

**System action:** Control is returned to the requestor.

**User response:** If this was an unexpected signal, attempt to determine the source of the signal.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM023 STOP SIGNAL *vars*<sub>sub</sub> *var*=*code***

**Explanation:** The request was stopped by the signal specified.

**System action:** Control is returned to the requestor.

**User response:** If the signal was unexpected, determine the cause of it and correct the situation.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM024 SOME CHOICES (\*) REQUIRE SUPERUSER OR THE 'SPECIAL' ATTRIBUTE FOR FULL FUNCTION, OR BOTH**

**Explanation:** The request that was made requires authority that the requestor does not have.

**System action:** Control returns to the requestor.

**User response:** If the request was validly made, contact your system administrator to have your authority modified.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM025 UNABLE TO ACCESS *vars*<sub>sub</sub> *var*=*msgpath* FOR WRITE**

**Explanation:** The request to write to the pathname specified resulted in an error due to the permissions on part of the pathname.

In the message text:

*vars*<sub>sub</sub> *var*=*msgpath*

The message path specified.

**System action:** Processing of the request is terminated. Control is returned to the requestor.

**User response:** Attempt to determine which part of the pathname is causing the access failure. If required,

contact your system administrator to have the access granted.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM026 TRAILING BLANKS IN DIRECTORY NAMES OR FILENAMES ARE NOT SUPPORTED BY EDIT OR BROWSE**

**Explanation:** During processing of the request, it was found that there were blanks at the end of the name. This is not supported.

**System action:** The request is terminated.

**User response:** Reenter the request without the trailing blanks.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM027 ENTER S TO STOP, ANYTHING ELSE TO CONTINUE**

**Explanation:** The requestor has an opportunity to terminate processing of his request.

**System action:** The system waits for a response.

**User response:** If you want to stop processing, enter 'S'. If you want to continue processing, enter anything else.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM028 NO MEMBERS WERE SELECTED**

**Explanation:** No selection was made before 'Enter' was pressed. There is nothing to process.

**System action:** Control is returned to the requestor.

**User response:** If selections were intended to be made, mark them and then press 'Enter'.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM029 DIFFERENCES WERE FOUND**

**Explanation:** The compare operation found differences between the compared parts.

**System action:** Control is returned to the requestor.

**User response:** Note the differences and handle accordingly.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM030 STRINGS WERE FOUND**

**Explanation:** During a search operation, the value specified was found.

**System action:** Control is returned to the requestor.

**User response:** Scan through the matching strings to find what you are looking for.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM031 FILE IS NOT A TEXT FILE**

**Explanation:** The specified file is not a text file. The requested operation requires a text file.

**System action:** Processing is terminated and control is returned to the requestor.

**User response:** Verify that the proper file was specified.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM032 NO FILES WERE COPIED**

**Explanation:** This is an information message to indicate that no copy was done as a result of the request that was made.

**System action:** Control is returned to the requestor.

**User response:** If a copy was expected, determine why it was not done.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM033 FILES NOT SELECTED**

**Explanation:** No files were selected for the requested operation.

**System action:** Control is returned to the requestor.

**User response:** Select the files that you would like to have the operation performed on.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM034 DUPLICATE ENTRY IGNORED**

**Explanation:** This is a warning message to indicate that duplicate entries have been found.

**System action:** Control returns to the requestor.

**User response:** If there were not supposed to be duplicate entries, verify your input.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM035 UNDEFINED UID OR GID**

**Explanation:** The UID or GID specified is undefined.

**System action:** Processing of the request is terminated. Control returns to the requestor.

**User response:** Verify that the proper UID or GID is specified.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM036 FILE HAS NO ACL**

**Explanation:** The specified file has no Access Control List (ACL).

**System action:** Control is returned to the requestor.

**User response:** Verify the request that was made. If necessary, contact your system administrator to have an ACL added to the file.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

**BPXWM037 THIS SERVICE DOES NOT SUPPORT PATHNAMES CONTAINING {}**

**Explanation:** Braces ({} ) are not supported by this service.

**System action:** Control is returned to the requestor.

**User response:** Verify that the braces are appropriate for this service.

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

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**Explanation:** This is a purely informational message showing the copyright information for this product. It is issued when the shell is first entered.

**System action:** Control is returned to the requestor.

**User response:** None

**Source:** z/OS UNIX System Services kernel (BPX)

**Detecting Module:** BPXWISH

---

## **Appendix. Accessibility**

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully. The major accessibility features in z/OS enable users to:

- 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 such products to access z/OS interfaces.

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### **Keyboard navigation of the user interface**

Users can access z/OS user interfaces using TSO/E or ISPF. Refer to *z/OS TSO/E Primer*, *z/OS TSO/E User's Guide*, and *z/OS ISPF User's Guide Vol I* for information about accessing TSO/E and ISPF interfaces. 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.

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### **z/OS information**

z/OS information is accessible using screen readers with the BookServer/Library Server versions of z/OS books in the Internet library at:

[www.ibm.com/servers/eserver/zseries/zos/bkserv/](http://www.ibm.com/servers/eserver/zseries/zos/bkserv/)



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MVS System Messages  
Volume 3 (ASB - BPX)**

**Publication No. SA22-7633-12**

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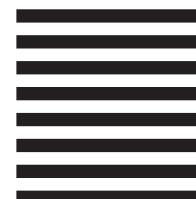
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