

z/OS
2.4

File System Messages and Codes



Note

Before using this information and the product it supports, read the information in [“Notices” on page 507.](#)

This edition applies to Version 2 Release 4 of z/OS (5650-ZOS) and to all subsequent releases and modifications until otherwise indicated in new editions.

Last updated: 2021-06-21

© **Copyright International Business Machines Corporation 1996, 2021.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

About this document.....V

How to send your comments to IBM..... vii

Summary of changes.....ix

Summary of message changes for z/OS File System in z/OS V2R4..... xi

Summary of message changes for Distributed File Service in z/OS V2R3.....xiii

Summary of message changes for Distributed File Service in z/OS V2R2.....xxi

Chapter 1. Introduction to zFS messages and codes..... 1

Chapter 2. IOEZnnnnnt: zFS messages.....5

Chapter 3. IOEZHnnnnnt: zFS Health Checker messages.....209

Chapter 4. IOENnnnnnt: General DFS messages..... 223

Chapter 5. IOEPnnnnnt: DFS kernel (dfskern) and general DFS error messages....261

Chapter 6. IOEWnnnnnt: SMB File/Print Server messages..... 313

Chapter 7. IOEXnnnnnt: File Exporter (dfsexport)..... 365

Appendix A. Reason codes..... 387

Appendix B. Accessibility.....503

Notices.....507

Trademarks..... 511

Index..... 513

About this document

Detailed explanations and recovery actions are provided for the messages issued by z/OS File System (zFS). zFS is z/OS® UNIX System Services (z/OS UNIX). See [z/OS File System Administration](#) for more information about zFS.

Prior to V2R4, this document was titled *z/OS Distributed File Service Messages and Codes*. Because V2R3 was the last release to support the Distributed File System / Server Message Block (DFS/SMB) functionality, the title is now *z/OS File System Messages and Codes* but the DFS/SMB messages are still included in the documentation.

Who should use this document

This document is intended for operators, administrators, programmers, and help desk representatives who require explanations and recoveries for the messages issued by zFS. A knowledge of TCP/IP communications and the z/OS UNIX operating system can help you use this guide more effectively.

z/OS information

This information explains how z/OS references information in other documents and on the web.

When possible, this information uses cross document links that go directly to the topic in reference using shortened versions of the document title. For complete titles and order numbers of the documents for all products that are part of z/OS, see [z/OS Information Roadmap](#).

To find the complete z/OS library, go to [IBM Documentation \(www.ibm.com/docs/en/zos\)](http://www.ibm.com/docs/en/zos).

Using this documentation

For information about installing zFS, see *ServerPac: Installing Your Order* (for ServerPac users) and *Server Pac: Installing Your Order*.

Information about zFS configuration on the other IBM® systems can be found in the configuration guide for those systems.

How to send your comments to IBM

We invite you to submit comments about the z/OS product documentation. Your valuable feedback helps to ensure accurate and high-quality information.

Important: If your comment regards a technical question or problem, see instead [“If you have a technical problem”](#) on page vii.

Submit your feedback by using the appropriate method for your type of comment or question:

Feedback on z/OS function

If your comment or question is about z/OS itself, submit a request through the [IBM RFE Community \(www.ibm.com/developerworks/rfe/\)](#).

Feedback on IBM Documentation function

If your comment or question is about the IBM Documentation functionality, for example search capabilities or how to arrange the browser view, send a detailed email to IBM Documentation Support at ibmdocs@us.ibm.com.

Feedback on the z/OS product documentation and content

If your comment is about the information that is provided in the z/OS product documentation library, send a detailed email to mhvrcfs@us.ibm.com. We welcome any feedback that you have, including comments on the clarity, accuracy, or completeness of the information.

To help us better process your submission, include the following information:

- Your name, company/university/institution name, and email address
- The following deliverable title and order number: z/OS File System Messages and Codes, SC23-6885-50
- The section title of the specific information to which your comment relates
- The text of your comment.

When you send comments to IBM, you grant IBM a nonexclusive authority to use or distribute the comments in any way appropriate without incurring any obligation to you.

IBM or any other organizations use the personal information that you supply to contact you only about the issues that you submit.

If you have a technical problem

If you have a technical problem or question, do not use the feedback methods that are provided for sending documentation comments. Instead, take one or more of the following actions:

- Go to the [IBM Support Portal \(support.ibm.com\)](#).
- Contact your IBM service representative.
- Call IBM technical support.

Summary of changes

This information includes terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations for the current edition are indicated by a vertical line to the left of the change.

Summary of message changes for z/OS File System in z/OS V2R4

The following messages and reason codes are new, changed, or no longer issued for z/OS File System (zFS) in z/OS V2R4.

New messages for zFS

The following messages are new for zFS.

IOEZ01031E (APAR OA59435)
IOEZ01027E
IOEZ01028E
IOEZ01029E
IOEZ01030E

New messages for Health Checker

The following messages are new for Health Checker.

None.

Changed messages for zFS

The following messages are changed for zFS.

IOEZ00857I (APAR OA59435)
IOEZ00782I
IOEZ00642I
IOEZ00004I
IOEZ00323I
IOEZ00324I
IOEZ00617I
IOEZ00639I
IOEZ00705I

Changed messages for Health Checker

The following messages are changed for Health Checker.

None.

New reason codes for zFS

The following reason codes are new for zFS.

6C94
6CA0
6CA2
6CA3
6CA5
6D0A
6D0B
6DOC

6D0D
6D0E
6D11
6D12

Changed reason codes for zFS

The following reason codes are changed for zFS.

None.

Summary of message changes for Distributed File Service in z/OS V2R3

The following messages and reason codes are new, changed, or no longer issued for Distributed File Service in z/OS V2R3.

New messages for zFS

IOEZ00092E (APAR OA54472)
IOEZ00445E (APAR OA54472)
IOEZ00589E (APAR OA54472)
IOEZ00650I
IOEZ00651E
IOEZ00652E
IOEZ00653E
IOEZ00655E
IOEZ00657E
IOEZ00705I
IOEZ00711I (was previously undocumented)
IOEZ00712I (was previously undocumented)
IOEZ00713E (was previously undocumented)
IOEZ00715E
IOEZ00853I
IOEZ00854I
IOEZ00858E
IOEZ00860E
IOEZ00861E
IOEZ00862E
IOEZ00866E
IOEZ00867I
IOEZ00870A (was previously undocumented)
IOEZ00872E
IOEZ00873I
IOEZ00877I
IOEZ00878I
IOEZ00879E
IOEZ00880E
IOEZ00881I
IOEZ00882E
IOEZ00883E
IOEZ00884E
IOEZ00885I
IOEZ00886E
IOEZ00887I
IOEZ00888I
IOEZ00889E
IOEZ00890E (V2R2 APAR OA49516)
IOEZ00891E (V2R2 APAR OA49516)

IOEZ00892I
IOEZ00895E
IOEZ00898I
IOEZ00896I
IOEZ00897E
IOEZ00899I
IOEZ00900I
IOEZ00901I
IOEZ00902I
IOEZ00903I
IOEZ00904E
IOEZ00905I
IOEZ00906I
IOEZ00907E
IOEZ00908I
IOEZ00942E
IOEZ00943E
IOEZ00947A
IOEZ00948A
IOEZ00949E
IOEZ00950E
IOEZ00951E
IOEZ00952E
IOEZ00953E
IOEZ00957E
IOEZ00958E
IOEZ00959E
IOEZ00960E
IOEZ00961E
IOEZ00962E
IOEZ00963E
IOEZ00964E
IOEZ00966E
IOEZ00981E
IOEZ00982E
IOEZ00983I
IOEZ00984I
IOEZ00985I
IOEZ00986I
IOEZ00987I
IOEZ00988I
IOEZ00989I
IOEZ00990E
IOEZ00991E
IOEZ00992E
IOEZ00993E
IOEZ00994I
IOEZ00995E
IOEZ00996E
IOEZ00997E
IOEZ00999I

IOEZ01000I
IOEZ01001I
IOEZ01002E
IOEZ01003I
IOEZ01004E (APAR OA54358)
IOEZ01005I
IOEZ01006I
IOEZ01007I
IOEZ01008I
IOEZ01009I (APAR OA55211)

New messages for SMB

IOEN00516A
IOEP12403I

New messages for Health Checker

None.

Changed messages for zFS

IOEZ00078E (APAR OA55616)
IOEZ00079I (APAR OA55616)
IOEZ00178I
IOEZ00338A
IOEZ00605I
IOEZ00617I
IOEZ00639I
IOEZ00675E
IOEZ00777A
IOEZ00828E
IOEZ00829E
IOEZ00851I (APAR OA56338)

Changed messages for Health Checker

None.

No longer issued messages for zFS

None.

No longer issued messages for Health Checker

None.

New reason codes for zFS

6A0A
6A00
6A01
6A02
6A03
6A04
6A05
6A06
6A07
6A08
6A09
6B5D
6B5E (V2R2 APAR OA49516)
6B5F (V2R2 APAR OA49516)
6B60 (V2R2 APAR OA49516)
6B61
6C00
6C04
6C14
6C15
6C21
6C22
6C23
6C0B
6C0C
6C0D
6C0E
6C0F
6C04
6C10
6C11
6C12
6C13
6C14
6C15
6C18
6C19
6C1A
6C1B
6C1C
6C1D
6C21
6C22
6C23
6C24
6C25
6C26
6C27
6C28
6C29
6C2A

6C2B
6C2C
6C2D
6C2F
6C30
6C31
6C32
6C32
6C33
6C34
6C35
6C36
6C37
6C3E
6C3F
6C40
6C41
6C42
6C43
6C44
6C45
6C46
6C47
6C48
6C49
6C4A
6C4F
6C50
6C51
6C52
6C53
6C54
6C55
6C56
6C57
6C58
635B
635C
635D
635E
635F
6C60
6C61 (APAR OA56145)
6C62 (APAR OA56145)
6C63 (APAR OA56145)
6C64 (APAR OA56145)
6C65 (APAR OA56145)
6C66 (APAR OA56145)
6C67 (APAR OA56145)
6C68 (APAR OA56145)
6C68

6C69
6C6A (APAR OA56145)
6C6B
6C6C
6C6D
6C6E
6C6F
6C71
6C72
6C73
6C74
6C75
6C76
6C77
6C78
6C79
6C7A
6C7B
6C7C
6C7D
6C7E
6C7F
6C80
6C81
6C82
6C83
6C84
6C85
6C86
6C87
6C88
6C89
6C8A
6C8B
6C8C
6C8D
6C8E (APAR OA54358)
6C8F (APAR OA56145)
6C90 (APAR OA56145)
6C92 (APAR OA56145)
6C93 (APAR OA56145)
6C94 (APAR OA56145)
6C95 (APAR OA56145)
6C96 (APAR OA56145)
6C97 (APAR OA56145)
6C98 (APAR OA56145)
6C99 (APAR OA56145)
6C9A (APAR OA56145)
6C9B (APAR OA56145)
6C9C (APAR OA56145)
6C9D (APAR OA56145)

6C9E (APAR OA56145)

6C9F (APAR OA56145)

New reason codes for DF04rr

None.

New reason codes for EFXrrr

None.

Changed reason codes for zFS

6A2E (APAR O54472)

62A4

6425

652D

69AA

Summary of message changes for Distributed File Service in z/OS V2R2

The following messages that are new, changed, or that z/OS no longer issues for Distributed File Service in z/OS V2R2.

New messages for zFS

The following messages are new for zFS.

IOEZ00670I
IOEZ00671E
IOEZ00678E
IOEZ00804E
IOEZ00826A
IOEZ00827I
IOEZ00828E
IOEZ00829E
IOEZ00830E
IOEZ00831E
IOEZ00832E
IOEZ00833E
IOEZ00834E
IOEZ00835E
IOEZ00836I
IOEZ00837E
IOEZ00838E
IOEZ00839E
IOEZ00840E
IOEZ00841E
IOEZ00842E
IOEZ00843E
IOEZ00844E
IOEZ00845E
IOEZ00846E
IOEZ00847E
IOEZ00848I
IOEZ00849I
IOEZ00850I
IOEZ00851I
IOEZ00852E
IOEZ00856E
IOEZ00857I
IOEZ00859I

New messages for Health Checker

The following messages are new for Health Checker.

IOEZH0062I
IOEZH0063I

IOEZH0064I
IOEZH0065E
IOEZH0066E
IOEZH0067E
IOEZH0068I
IOEZH0069I
IOEZH0070I
IOEZH0071E
IOEZH0072E
IOEZH0073E

Changed messages for zFS

The following messages are changed for zFS.

IOEZ00040E
IOEZ00093E
IOEZ00094E
IOEZ00241I
IOEZ00242I
IOEZ00320I
IOEZ00336I
IOEZ00374I
IOEZ00439E
IOEZ00617I
IOEZ00639I
IOEZ00645A
IOEZ00723E
IOEZ00807I

Changed messages for Health Checker

The following messages are changed for Health Checker.

IOEZH0040I
IOEZH0041I
IOEZH0042I
IOEZH0043I
IOEZH0044E
IOEZH0045E

New reason codes for zFS

The following reason codes are new for zFS.

6A33
6A0C
6A0D
6A0E
6A0F
6A10
6A11
6A12
6A13
6A17

6A18
6A19
6A1A
6A1B
6A1C
6A1D
6A1E
6A1F
6B27
6B28
6B48
6B49
6B4A
6B4B
6B4C
6B4D
6B4E
6B4F
6B50
6B51
6B52
6B53
6B54
6B55
6B56
6B5D
6238
6764

Changed reason codes for zFS

The following reason codes are changed for zFS.

6B56
6058
6012
6151
6407
640C
640D
660A
664D

Deleted messages for zFS

zFS no longer issues the following messages.

IOEZ00816I
IOEZ00817E
IOEZ00819E
IOEZ00821E

Deleted messages for Health Checker

IOEZH0010I
IOEZH0011E
IOEZH0012I
IOEZH0013R
IOEZH0014E
IOEZH0015I
IOEZH00517E
IOEZH0020I
IOEZH0021E
IOEZH0022I
IOEZH0030I
IOEZH0031I
IOEZH0032I
IOEZH0033I

Chapter 1. Introduction to zFS messages and codes

Detailed explanations and recovery actions are provided to supplement the messages that are issued by z/OS File System (zFS) and the zFS health checks. Processing options that can be used to control zFS are documented in *z/OS File System Administration*.

In z/OS V2R3, the statement of direction was updated to indicate that V2R3 would be the last release to support the DFS/SMB (Distributed File System/Server Message Block) functionality. IBM had previously announced that the Network File System (NFS) was the strategic file sharing protocol for the z/OS platform. The related messages and return codes are still included in the documentation.

Where to find the most current message information

In the z/OS library, 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 because they are no longer issued, the message is **not** deleted from the documents.

To find the most current description of a message, see the following resources:

[z/OS Internet library \(www.ibm.com/servers/resourcelink/svc00100.nsf/pages/zosInternetLibrary\)](http://www.ibm.com/servers/resourcelink/svc00100.nsf/pages/zosInternetLibrary)
[IBM Documentation \(www.ibm.com/docs/en/zos\)](http://www.ibm.com/docs/en/zos)

Understanding zFS messages

Messages are divided into three categories: action, error, and informational. Those of the form IOEZnnnt are issued by zFS, while messages prefixed with IOEZHnnnt are issued from the zFS health checker.

The last part of the message number (*t*) is a single-character operator code that represents the type of recovery action to be taken by the operator in response to the message. These operator codes are associated with the different levels of severity, as listed in “Severity levels” on page 2. The recovery actions are represented by the following characters:

- A**
Indicates that the operator must take immediate action, for example, recovering from a system failure.
- D**
Indicates that the operator must choose an alternative action, for example, responding yes or no.
- E**
Indicates that the operator must take eventual action, for example, loading paper in a printer.
- I**
Indicates that the message is informational and no action is required, for example, when a command completes successfully.

What is first-level message text?

Together, the message number and the message text that immediately follows the message number comprise the first-level text. This is the message information that is returned to the operator console or user display.

What is second-level message text?

The explanation and responses that supplement the message number and message text comprise the second-level text.

Severity levels

Each message contains a severity field that indicates the level of severity associated with the message. These severity levels are described in the following list:

svc_c_sev_fatal

Indicates a non-recoverable error that probably requires manual intervention. Usually, permanent loss or damage has occurred that results in the program terminating immediately, such as database corruption. Messages of this severity have an operator code of A.

svc_c_sev_error

Indicates that an unexpected event has occurred that does not terminate the program and which can be corrected by human intervention. The program continues although certain functions or services might remain unavailable. Examples include performance degradation that results in a loss of function, such as a timeout, or a specific request or action that cannot be completed, such as trying to add an object to a directory system when the object already exists. Messages of this severity have an operator code of A or E.

svc_s_sev_user

Indicates that a usage error on a public API has occurred, such as a syntax error. Messages of this severity have an operator code of A or E.

svc_c_sev_warning

Indicates one of the following conditions; messages of this severity have an operator code of E or I.

- An error occurred that was automatically corrected by the program or system. An example of an error corrected by a program is when a configuration file is not found during configuration and a message is issued warning the user that certain internal defaults were used.
- A condition has been detected which may be an error depending on whether the effects of the condition are acceptable. For example, a directory is deleted and a warning message is issued that all files contained in the directory will also be deleted.
- A condition exists that, if left uncorrected, will eventually result in an error.

svc_c_sev_notice

Indicates major events, such as the start of a server, completion of server initialization, or an offline server. Messages of this severity have an operator code of E or I.

svc_sev_notice_verbose

Indicates events of special interest, such as statistical information, key data values, use of default settings, and version information. However, it does not indicate program flow or normal events. Messages of this severity have an operator code of I.

Setting slip traps to obtain diagnosis data

When you receive a zFS reason code and need additional diagnosis information, IBM Support Center might ask you set a slip trap to collect a dump when you recreate the problem.

As a general example, you can perform the following steps to obtain a dump on a specific zFS reason code:

1. Enter the following command to determine the ASID for the zFS Physical File System:

```
D A,ZFS
```

2. Look for the ASID of the ZFS address space in A=nnnn.
3. Use the following SLIP command to produce a dump when a specific reason code is issued:

```
SLIP SET,IF,A=SYNCSVCD,RANGE=(10?+8C?+F0?+1F4?),  
ASIDLST=(nnnn),DATA=(13R??+1b0,EQ,xxxxxxxx),DSPNAME=('OMVS'.*),  
SDATA=(ALLNUC,PSA,CSA,LPA,TRT,SQA,RGN,SUM),j=jobname,END
```

nnnn

The zFS ASID

xxxxxxx

The 4-byte zFS reason code to trap (for example, EF17624E)

jobname

The optional job name that is expected to issue the error (for example, j=IBMUSER).

Chapter 2. IOEZnnnnnt: zFS messages

The following messages may result from zFS processing.

IOEZ00001E **zFS I/O error error occurred for aggregate *aggregate*.****Explanation:**

A physical I/O error occurred on aggregate *aggregate*. Additional messages are provided that give more information about the error. If the error occurred with file system metadata, the aggregate may be disabled for writing.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Determine if there is a real hardware error. If there is, then take steps to correct the problem. Otherwise, contact your service representative.

IOEZ00002E **MMRE error id=*id* cis=*count* if=*inflags* of=*outflags* buf=*buffer* CI=*ci*.****Explanation:**

This message documents additional information about a physical I/O error that occurred on a zFS aggregate. This information is intended for IBM service personnel, and is used to provide more information about the details of the I/O error.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Determine if there is a real hardware error. If there is, then take steps to correct the problem. Otherwise, contact your service representative.

IOEZ00003E **While opening minor device *minor_number*, could not open dataset *dataset_name*.****Explanation:**

The device driver cannot open a zFS aggregate.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Verify that the named data set exists and is accessible.

IOEZ00004I **Formatting to *control_interval_size* control interval *control_interval_number* for primary extent of *aggregate_name*.****Explanation**

The zFS device driver encountered an unformatted aggregate and is loading it.

In the message text:

aggregate_name

Name of aggregate.

control_interval_size

The control interval size.

control_interval_number

Number of control intervals.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00005I Primary extent loaded successfully for *dataset_name*.**Explanation:**

The device driver has finished loading the primary extent of the named aggregate.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00006E Error *ErrorCode* occurred while loading dataset '*dataset_name*'.**Explanation:**

An error occurred while the device driver was loading the named linear data set.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Verify that the data set exists and that the application can write to it.

IOEZ00007A zFS kernel unable to set up to receive Operator commands.**Explanation:**

The program was not able to setup to receive MODIFY commands from the operator.

System action:

The program continues.

Severity:

svc_c_sev_fatal

Administrator Response:

Contact your service representative.

IOEZ00008E *ProgName*: Unable to open debug parameter dataset '*ParmFile*'.**Explanation:**

The *ProgName* program was not able to open the zFS debug parameter data set. The default values will be used for zFS debugging parameters.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that the *ParmFile* data set exists and that the *ProgName* program has read data set authority to it. If the problem continues, contact your service representative.

IOEZ00009I *ProgName*: Using default values for zFS debug parameters.**Explanation:**

The *ProgName* program is using default values for zFS debug parameters.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00010A *ProgName: Incorrect parameter record 'BadRecord' is ignored.*

Explanation:

The *ProgName* program found an incorrect record in the zFS debug parameters data set.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Correct the record and start *ProgName* again.

IOEZ00011A *ProgName: Operand must be numeric (BadArg).*

Explanation

The *ProgName* program found a non-numeric value specified for a numeric operand.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Specify a numeric value and start *ProgName* again.

IOEZ00012A *ProgName: BadArg exceeds maximum value MaxValue.*

Explanation:

The *ProgName* program found a numeric operand that was too large.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Ensure that the operand *BadArg* is not larger than the *MaxValue* and restart *ProgName*.

IOEZ00013A *ProgName: Operand must be string (BadArg).*

Explanation:

The *ProgName* program found a missing string operand.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Ensure that the *BadArg* operand is specified and restart *ProgName*.

IOEZ00014A *ProgName: BadArg exceeds max string length Maxlen.*

Explanation:

The *ProgName* program found a string operand that is too long.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Ensure that the *BadArg* operand string is not greater than *Maxlen* and restart *ProgName*.

IOEZ00015A

ProgName: Partition start list 'BadArg' not delimited by parentheses.

Explanation:

The *ProgName* program found a syntax error in operand *BadArg* in the zFS debug parameter data set.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Ensure that the *BadArg* operand string is delimited by parentheses and restart *ProgName*.

IOEZ00016I

ProgName: Modify complete for Parameter Value.

Explanation:

The *ProgName* program has successfully set the value of the program parameter *Parameter* to *Value*.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00017A

ProgName: Incorrect parameter debug record BadRecord in dataset dataset_name.

Explanation:

The *ProgName* program found a syntax error in ioedebug record *BadRecord*.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Correct the error in the ioedebug record and restart *ProgName*.

IOEZ00018A

ProgName: Incorrect parameter BadParameter.

Explanation:

The *ProgName* program found an incorrect parameter *BadParameter* in the zFS debug parameters data set.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Specify a valid parameter and restart *ProgName*.

IOEZ00019E

**ProgName: Parameter *Parameter* is not valid for modify command
CommandName.**

Explanation:

The specified parameter *Parameter* is not valid for the *CommandName* command.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Additional information about the syntax of the *CommandName* command is found in the [z/OS File System Administration](#).

IOEZ00020I

**progname: *prodname featurename* Version *ver.rel.mod* Service Level *slv*.
Created on *date*.**

Explanation:

This message is issued when the level of zFS is queried using the QUERY command. The system returns the product name, feature name, version, release, modlevel, service level and creation date of the zFS program.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00023E

ProgName: modify command is not valid - *Parm*.

Explanation:

The syntax of the MODIFY command is not correct.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Additional information about the syntax of the *Parm* command is found in the [z/OS File System Administration](#).

IOEZ00024E

ProgName: MODIFY command - *Parm* failed.

Explanation:

The MODIFY command *Parm* failed.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Additional information about the syntax of the *Parm* command is found in [z/OS File System Administration](#). Verify that the command was entered with valid parameters. Also, ensure that the command was issued in an environment where it is supported. If the problem continues, contact your service representative.

IOEZ00025I

ProgName: MODIFY command - *Parm* completed successfully.

Explanation:

The MODIFY command *Parm* was successful.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00032I *ProgramName: in-memory trace table has been reset.*

Explanation:

The in-memory trace table has been reset by the RESET MODIFY command.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00033E *ProgramName: could not open trace output dataset.*

Explanation:

The in-memory trace table could not be printed because the output trace data set could not be opened.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that the trace_dsn parameter specifies a valid data set name that can be opened for output.

IOEZ00034I *ProgramName: printing contents of trace to dataset <DatasetName>.*

Explanation:

The in-memory trace table is being written to data set *DatasetName*.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00035I **No trace table to print.**

Explanation:

There was no in-memory trace table found to be printed.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00036I **Printing contents of table at address *Address* name: *Name*.**

Explanation:

The contents of in-memory trace table name *Name* is being printed.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00037I **Trace table is already being printed.**

Explanation:

The contents of in-memory trace table is already being printed.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00038E **Incorrect record length *Reclen* found while printing trace table.****Explanation:**

A record was found to have an incorrect length while printing the trace table.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00039E **Mismatched record length *SReclen*, *EReclen* found while printing trace table.****Explanation:**

A record was found to have a starting record length that did not match the ending record length in the trace table.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00040E **An incorrect record at offset *offset* was found while printing trace table.****Explanation**

An incorrect record was found when printing the in-memory trace table.

In the message text:

offset

The offset to the incorrect record in the trace table.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00041I **No start record, trace wrapped, total records *Records*, *Bytes* bytes to format.****Explanation:**

An in-memory trace table wrapped. The whole table is being printed. Important data may be lost.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00042I **Start record found, total records *Records*, *Bytes* bytes to format.****Explanation:**

An in-memory trace is being printed. The trace table has not wrapped since the last printing or program start.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00043I

ProgramName: print of in-memory trace table has completed.

Explanation:

An in-memory trace table print has completed.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00044I

Aggregate Name attached successfully.

Explanation:

Aggregate Name was successfully attached by zFS.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00045I

Could not attach aggregate Name because its already attached.

Explanation:

Aggregate Name could not be attached because it is already attached.

System action:

The program continues.

Severity:

svc_c_sev_warning

IOEZ00046E

Error ErrorCode received while attaching aggregate Name.

Explanation:

Aggregate Name could not be attached. See [Return codes \(errno\)](#) in *z/OS UNIX System Services Messages and Codes* for a description of the return code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that the aggregate is accessible to zFS in the desired attach mode (read-only or read-write). Also, ensure that you are not mounting or attaching an aggregate read-write when it is already mounted or attached read-write on another (non-sysplex coordinated) system. If the problem continues, contact your service representative.

IOEZ00048I

Detaching aggregate Name.

Explanation:

Aggregate Name is being detached.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00050I

ProgramName: Stop command received.

Explanation:

The zFS kernel has received an operator stop request. All aggregates will be detached and the zFS kernel will terminate.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00051I **An error occurred in program IOEFSKN.****Explanation:**

This message is issued when an internal error has occurred in program IOEFSKN. The zFS kernel (IOEFSKN) is being internally restarted. zFS is attempting to recover from the internal error. Some programs may see I/O errors.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Contact your service representative.

IOEZ00052I ***progname: Initializing prodname featurename Version ver.rel.mod
Service Level slv. Created on date.*****Explanation:**

This message is issued when the named zFS program starts. It identifies the product name, feature name, version, release, modlevel, service level and creation date of the zFS program.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00053E **Error setting up termination thread, code = *ErrorCode*.****Explanation:**

An error was encountered attempting to define the routine used to handle the **stop** command from the operator or z/OS UNIX kernel. The result is that a modify omvs,stopdfs=zfs command will not function properly. See [Return codes \(errno\)](#) in [z/OS UNIX System Services Messages and Codes](#) for a description of the return code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00054E **Error starting console thread, code = *ErrorCode*.****Explanation:**

An error was encountered attempting to start a thread to accept operator MODIFYcommand. **F zFS** commands will be disabled as a result. See [Return codes \(errno\)](#) in [z/OS UNIX System Services Messages and Codes](#) for a description of the return code.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00055I **zFS kernel: initialization complete.****Explanation:**

The zFS kernel has completed initialization. File systems can now be mounted.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00057I **zFS kernel program IOEFSKN is ending.****Explanation:**

IOEFSKN is terminating. It will be restarted by the zFS control program IOEFSCM. Some programs may see I/O errors.

System action:

The program (IOEFSCM) continues

Severity:

svc_c_sev_notice

Administrator Response:

Contact your service representative.

IOEZ00062A **zFS kernel: could not create admin thread, code *ErrorCode*.****Explanation:**

A zFS kernel could not create a thread to process administration commands. See [Return codes \(errno\)](#) in *z/OS UNIX System Services Messages and Codes* for a description of the return code.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Determine if enough storage is specified for the zFS kernel. If increasing storage does not help the problem, contact your service representative.

IOEZ00064I **General Registers RRegNumber: *Reg1 Reg2 Reg3 Reg4*.****Explanation:**

A zFS kernel was driven for recovery for a z/OS UNIX process. This message shows the registers at time of error.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

This message will be followed by additional messages indicating more about the problem. Recovery may not be a problem.

IOEZ00068E **zFS file system *Name* exceeds *Threshold%* full (*blocks1/blocks2*) (WARNING).****Explanation:**

A zFS file system used space has exceeded the administrator defined threshold specified on the `fsfull` option. The numbers in parentheses are the number of 1K blocks used in the file system and the number of 1K blocks in the total file system, respectively.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

If appropriate, increase the file system quota.

IOEZ00069I zFS file system *Name* is now below *Threshold%* full (*blocks1/blocks2*).

Explanation:

A zFS file system used space has fallen below the administrator defined threshold specified on the `fsfull` option. The numbers in parentheses are the number of 1K blocks used in the aggregate and the number of 1K blocks in the total aggregate, respectively.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00070E Incorrect value *Perms* for permissions.

Explanation:

An incorrect value *Perms* for the `-perms` field of the `ioeagfmt` command was specified. Either the permissions specified are not valid or you do not have UID=0 (nor READ authority to the SUPERUSER.FILESYS.PFCTL profile in the UNIXPRIV class) and you are attempting to specify a value for permissions that is not the default.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the value and re-execute the `ioeagfmt` command. Note that the value for `-perms` cannot be greater than the hexadecimal value `xFFF`.

IOEZ00077I HFS-compatibility aggregate *aggregate_name* has been successfully created.

Explanation:

An HFS-compatibility aggregate was successfully created by the `ioeagfmt` program.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00078E zFS aggregate *Name* exceeds *Threshold%* full (*blocks1/blocks2*) (WARNING).

Explanation:

A zFS aggregate has exceeded the space utilization threshold that is specified on the `aggrfull` (or `fsfull`) option. The numbers in parentheses are the number of 8 K blocks used in the aggregate and the number of 8 K blocks in the total aggregate, respectively.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

If appropriate, increase the aggregate size.

IOEZ00079I zFS aggregate *Name* is now below *Threshold%* full (*blocks1/blocks2*).

Explanation:

A zFS aggregate has now below the space utilization threshold specified on the `aggrfull` (or `fsfull`) option. The numbers in parentheses are the number of 8 K blocks used in the aggregate and the number of 8 K blocks in the total aggregate, respectively.

System action:

The program continues.

Severity:

`svc_c_sev_notice`

IOEZ00080A **Signal *signal* received, dump in progress.****Explanation:**

A zFS program is abending, and a dump is in progress.

System action:

The program ends.

Severity:

`svc_c_sev_fatal`

Administrator Response

Contact your service representative.

IOEZ00081A **zFS: PSW from Machine State: *psw1 psw2* Abend Code from CIB: *abend* Reason Code from CIB: *reason* Load Module Name: *module*.****Explanation:**

Abend information at time of dump. See [z/OS MVS System Codes](#) for additional information about abend codes.

System action:

The program ends.

Severity:

`svc_c_sev_fatal`

Administrator Response:

Contact your service representative.

IOEZ00082A **Immediate end of processing requested: *message_string*.****Explanation:**

The zFS program is stopping due to an unrecoverable error.

System action:

The program ends abnormally.

Severity:

`svc_c_sev_fatal`

Administrator Response:

Contact your service representative.

IOEZ00083A **Assertion Failed:Assertion Line:LineNo File:FileName.****Explanation:**

An internal error has occurred in the zFS kernel. A dump will be taken.

System action:

The program ends.

Severity:

`svc_c_sev_fatal`

Administrator Response:

Contact your service representative.

IOEZ00084E

Syntax error string *String* on line(s) *StartLine:EndLine* in configuration dataset *FileName*.

Explanation

A syntax error was found while parsing the zFS parameter data set. The line in error is shown as an aid to the administrator.

In the message text:

String

The text in error.

StartLine

The starting line number of the statement in error.

EndLine

The ending line number of the statement in error.

FileName

The configuration filename.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Correct the line in error and try the operation again.

IOEZ00085E

Error *ErrorCode* received opening configuration dataset *Dsname*.

Explanation:

An error was received while attempting to open the configuration data set. The error code from the DFSMS OPEN macro instruction. See [z/OS DFSMS Macro Instructions for Data Sets](#) for additional information about OPEN return codes.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that the zFS parameter data set is accessible to the program and try the operation again.

IOEZ00087I

The parameter, *Parameter1*, requires *String* non-null argument value.

Explanation:

The parameter requires one or more values, but none were specified.

System action:

The program ends.

User response:

Enter the command specifying a value for *Parameter1*.

Severity:

svc_c_sev_warning

IOEZ00088I

The argument, *Argument*, does not represent a valid value for the parameter *Parameter*.

Explanation:

The value specified for the parameter was not valid.

System action:

The program ends.

User response:

Enter the command with a valid value for the parameter.

Severity:

svc_c_sev_warning

IOEZ00092E**The user is not authorized to run this command.****Explanation:**

Some commands require either a UID of 0 or READ access to the SUPERUSER.FILESYS.PFSCCTL profile in the z/OS UNIXPRIV class. Some commands require UPDATE access to the data set profile. To find the privilege required for zFS commands, see [z/OS File System Administration](#).

System action:

The program continues.

Severity:

svc_c_sev_error

IOEZ00093E**Incorrect value *Owner* for owner.****Explanation:**

An incorrect value *Owner* for the `-owner` field of the **zfsadm format**, **ioefsutl format**, or **ioeagfmt** command was specified. Either the owner specified does not exist or you do not have UID=0 (nor READ authority to the SUPERUSER.FILESYS.PFSCCTL profile in the UNIXPRIV class) and you are attempting to specify a value for an owner that is not the default.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the value and re-execute the **zfsadm format**, **ioefsutl format**, or **ioeagfmt** command.

IOEZ00094E**Incorrect value *Group* for group.****Explanation:**

An incorrect value *Group* for the `-group` field of the **zfsadm format**, **ioefsutl format**, or **ioeagfmt** command was specified. Either the owner specified does not exist or you do not have UID=0 (nor READ authority to the SUPERUSER.FILESYS.PFSCCTL profile in the UNIXPRIV class) and you are attempting to specify a value for an owner that is not the default.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the value and re-execute the **zfsadm format**, **ioefsutl format**, or **ioeagfmt** command.

IOEZ00095E**Incorrect value *Perms* for permissions.****Explanation:**

An incorrect value *Perms* for the `-perms` field of the **zfsadm format**, **ioefsutl format**, or **ioeagfmt** command was specified.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the value and re-execute the **zfsadm format**, **ioefsutl format**, or **ioeagfmt** command. Note that the value for `-perms` cannot be greater than the hexadecimal value xFFF.

IOEZ00096E **Incorrect value *Size* for size.****Explanation:**

An incorrect value *Size* for the *-size* field of the **zfsadm** command was specified.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the value and re-execute the **zfsadm** command.

IOEZ00100E **File system *Name* was not found.****Explanation**

A **zfsadm** command was executed for a file system that was not found to be attached to the zFS kernel.

System action

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Retry the operation with a valid file system name.

IOEZ00105I **File system *Name* deleted successfully.****Explanation**

A file system was successfully deleted.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00106I **A total of *Count* aggregates are attached.****Explanation:**

This message shows the total number of aggregates attached.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00109E **Could not retrieve parameter dataset name from zFS kernel.****Explanation:**

A **zfsadm** command could not communicate with the zFS kernel to retrieve the parameter data set name. One possible reason is the zFS kernel is not started.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that the zFS kernel is started before running the **zfsadm** command.

IOEZ00110E**Could not read the zFS parameter dataset.****Explanation:**

A **zfsadm** command could not read the specified zFS debug parameters data set.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that the debug parameters data set is accessible to the **zfsadm** command.

IOEZ00112E**Must specify at least -all or -aggregate options.****Explanation:**

A **zfsadm** command did not specify a required parameter.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Retry the command specifying valid options.

IOEZ00117I**Aggregate Name attached successfully.****Explanation:**

An aggregate was attached successfully.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00118I**Aggregate Name is already attached.****Explanation:**

An aggregate could not be attached because it is already attached.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00119E**Aggregate Name could not be attached, error code=*ErrorCode* reason code=*ReasonCode*.****Explanation:**

An aggregate could not be attached. The error code is shown with messages that will further explain the error. See Return codes (errno) in *z/OS UNIX System Services Messages and Codes* for a description of the error code. See [Appendix A, "Reason codes," on page 387](#) for a description of the reason code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Use the error code and reason code to determine the cause of the error. Retry the command. If the problem continues, contact your service representative.

IOEZ00120E**Syntax error with aggregate full parameter - *Parameter*.****Explanation:**

An aggregate could not be attached because the aggrfull processing option is improperly specified.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Correct the aggregate full parameter and retry the command.

IOEZ00122I**Aggregate *Name* detached successfully.****Explanation:**

An aggregate was successfully detached by the **zfsadm** command.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00123I**Could not detach aggregate *Name* because it was not attached.****Explanation:**

An aggregate could not be detached because the zFS kernel did not have it attached when the command was executed.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00124E**Error detaching aggregate *Name*, error code=*ErrorCode* reason code=*ReasonCode*.****Explanation:**

An aggregate could not be detached due to an unexpected error. Possibly the aggregate was busy with another command, or file systems in the aggregate are mounted. See [Return codes \(errno\) in z/OS UNIX System Services Messages and Codes](#) for a description of the error code. See [Appendix A, "Reason codes," on page 387](#) for a description of the reason code.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

If there are no file systems on the aggregate that are mounted, and there are no other commands running against the aggregate, and the problem continues, contact your service representative.

IOEZ00127I **No file systems found for aggregate *Name*.**

Explanation:

A **zfsadm lsfs** command was issued to query file system information. No file systems were found in the aggregate.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00129I **Total of *Total* file systems found for aggregate *Name*.**

Explanation:

A **zfsadm** command was issued to list file system information.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00131E **File system name *filesys_name* too long; must be less than *bad_number* chars.**

Explanation:

The specified file system name length is too long.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Correct the file system name length to be fewer than the maximum number of characters listed in the error message.

IOEZ00132E **Incorrect file system name *filesys_name*; should not be a number.**

Explanation:

The specified file system must be a name, not a number.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Correct the file system to be a character name. Then try the request again.

IOEZ00133E ***program_name*: Number (*bad_number*) is too large. Specify a smaller number.**

Explanation:

The specified number is too large.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Specify a smaller number. Then try the request again.

IOEZ00134E **Incorrect file system name *filesys_name*; cannot end in .bak.**

Explanation:

Specify a file system name that does not end in .bak.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Correct the file system name. Then try the request again.

IOEZ00135E **Aggregate Name was not found.**

Explanation:

A **zfsadm** command was executed for an aggregate that was not found to be attached to the zFS kernel.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Retry the operation with a valid aggregate name.

IOEZ00136E **File system *filesys_id_hi*,*filesys_id_low* is busy: *error_text*.**

Explanation:

The file system is busy and cannot be accessed.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Correct the error listed in the error text. Then try the request again. If the problem continues, contact the service representative.

IOEZ00138E **Open error on file(*dsname*), *errno(errno)*.**

Explanation:

An error occurred opening the messages data set pointed to by `msg_input_dsn` in the configuration data set.

System action:

The program continues. Messages will be from in core message table.

Severity:

svc_c_sev_error

Administrator Response:

Check that the `msg_input_dsn` variable in the configuration data set and verify that the messages data set exists.

IOEZ00139E **read error on file(*dsname*), *errno(errno)*.**

Explanation:

An error occurred reading the messages data set pointed to by `msg_input_dsn` in the configuration data set.

System action:

The program continues. Messages will be from the core message table.

Severity:

svc_c_sev_error

Administrator Response

Check the msg_input_dsn variable in the configuration data set and verify that the messages data set is valid.

IOEZ00140I**Using default message table which is in English.****Explanation:**

An error occurred opening or reading the messages data set pointed to by msg_input_dsn in the configuration data set. Verify that the message data set name is valid, exists, and is not damaged.

System action:

The program continues. Messages will be from in core message table.

Severity:

svc_c_sev_warning

Administrator Response:

Check the msg_input_dsn variable in the configuration data set and verify that the messages data set is valid.

IOEZ00141E**Insufficient storage available.****Explanation:**

An error occurred attempting to allocate storage.

System action:

The program continues. Messaging may not occur.

Severity:

svc_c_sev_error

Administrator Response:

Check that the task was started with sufficient storage.

IOEZ00142E**Message control block is NULL, Cannot print message ID(xmsgid).****Explanation:**

The messaging support main control block is corrupted. The message number that was being displayed is reported.

System action:

The program continues. Messaging may not occur.

Severity:

svc_c_sev_error

Administrator Response:

Task may need to be restarted to correct the messaging control block.

IOEZ00143E**Unable to retrieve message text for message ID(xmsgid).****Explanation:**

An error occurred while trying to retrieve message text for the displayed message ID. The message number that was being displayed is reported.

System action:

The program continues. Messaging may not occur.

Severity:

svc_c_sev_error

Administrator Response:

Task may need to be restarted to correct the messaging control block.

IOEZ00144E **Unknown message.****Explanation:**

An error occurred while trying to retrieve message text for the displayed message id. This message id is unknown to the task.

System action:

The program continues. Messaging may not occur.

Severity:

svc_c_sev_error

Administrator Response:

Task may need to be restarted to correct the messaging control block.

IOEZ00157E **Open of message output dataset (*dsname*) failed.****Explanation:**

An error occurred while trying to open the message output data set defined by `msg_output_dsn`.

System action

The program continues. Messaging may not occur to that data set.

Severity:

svc_c_sev_error

Administrator Response:

Correct the `msg_output_dsn` parameter and be sure it points to a data set that either exists, or zFS has write access to it.

IOEZ00158E **Write to message output dataset (*dsname*) failed.****Explanation:**

An error occurred while trying to write to the message output data set defined by `msg_output_dsn`.

System action:

The program continues. Messaging may not occur to that data set.

Severity:

svc_c_sev_error

Administrator Response:

Correct the `msg_output_dsn` parameter and be sure it points to a data set that either exists, or zFS has write access to it.

IOEZ00159E **No output dataset defined by `output_message_dataset`.****Explanation:**

An error occurred while trying to open the message output data set. Parameter `msg_output_dsn` is either omitted or incorrect.

System action:

The program continues. Messaging may not occur to an output data set.

Severity:

svc_c_sev_error

Administrator Response:

Correct the `msg_output_dsn` parameter and be sure it points to a data set that either exists, or zFS has write access to it.

IOEZ00163I **Aggregate Name successfully quiesced.****Explanation:**

An aggregate was successfully quiesced by the `zfsadm` command.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00164I **Could not quiesce aggregate *Name* because it was not attached.**

Explanation:

An aggregate could not be quiesced because the zFS kernel did not have it attached when the command was executed.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00165E **Error *ErrorCode* reason code *ReasonCode* received quiescing aggregate *Name*.**

Explanation:

An aggregate could not be quiesced due to an unexpected error, or possibly the aggregate was busy with another command or operation. See the section on return codes in *z/OS UNIX System Services Messages and Codes* for a description of the error code. See [Appendix A, "Reason codes," on page 387](#) for a description of the reason code.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

If there are no other commands or operations running against the aggregate, and the problem continues, contact your service representative.

IOEZ00166I **Aggregate *Name* successfully unquiesced.**

Explanation:

An aggregate was successfully unquiesced by the **zfsadm** command.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00167I **Could not unquiesce aggregate *Name* because it was not attached.**

Explanation:

An aggregate could not be unquiesced because the zFS kernel did not have it attached when the command was executed.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00168E

Error *ErrorCode* reason code *ReasonCode* received unquiescing aggregate *Name*.

Explanation:

An aggregate could not be quiesced due to an unexpected error, or possibly the aggregate was busy with another command or operation. See Return codes (errno) in *z/OS UNIX System Services Messages and Codes* for a description of the error code. See [Appendix A, “Reason codes,”](#) on page 387 for a description of the reason code.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

If there are no other commands or operations running against the aggregate, and the problem continues, contact your service representative.

IOEZ00170E

Open of file system *FilesystemName* failed with rc *ReturnCode*.

Explanation:

In order to quiesce file system *FilesystemName*, it needs to be opened. This operation failed with a return code of *ReturnCode*. Therefore, the aggregate is not quiesced. See [Return codes \(errno\) in *z/OS UNIX System Services Messages and Codes*](#) for a description of the return code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response

Use the return code to determine why the open failed. Then, correct the problem and reissue the quiesce command.

IOEZ00171I

Close of file system *FilesystemName* failed with rc *ReturnCode*.

Explanation:

In order to unquiesce file system *FilesystemName*, it needs to be closed. This operation failed with a return code of *ReturnCode*. The unquiescing of the aggregate will continue until all file systems have been attempted to be closed. See [Return codes \(errno\) in *z/OS UNIX System Services Messages and Codes*](#) for a description of the return code.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Use the return code to determine why the close failed, and correct any problem that may render the file system unusable.

IOEZ00173I

Aggregate *Name* successfully grown.

Explanation:

An aggregate was successfully increased in size by the **zfsadm** command.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

svc_c_sev_error

Administrator Response:

Ensure that the data set that should contain the trace exists, is writable, and is not allocated to another job or user.

IOEZ00182E **Could not write to trace output dataset.**

Explanation

A zFS program could not print the in-memory trace table.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response

Ensure that the data set that should contain the trace exists, is writable, and is not allocated to another job or user.

IOEZ00183E **File system *FileSystem* is busy.**

Explanation:

A **zfsadm** command was issued against a file system that is currently the target of another **zfsadm** operation, or the file system is mounted and the **zfsadm** command is not valid for a mounted file system.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

The administrator can determine if the file system is mounted by issuing the **zfsadm lsfs** command or the **df** command. If the file system is busy due to another **zfsadm** command, then retry this command when the previous command completes.

IOEZ00184E **Duplicate file system *FileSystem* found on aggregate *AggrName*, already attached on aggregate *PrevAggrName*.**

Explanation:

An aggregate was being attached and zFS detected that the aggregate has a file system defined that matches the name of a file system on another previously attached aggregate. The file system reported as a duplicate is not attached and is unavailable for processing. The original file system on the previously attached aggregate is available for processing.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

The administrator can correct the situation by renaming the file system on the aggregate that is currently attached, and then by re-attaching the aggregate that had the duplicate name.

IOEZ00185E **DASD volser *Volser* is offline, aggregate *AggrName* cannot be attached.**

Explanation:

An aggregate was being attached and zFS detected that the aggregate is on a DASD volume that is offline.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

To improve performance and availability, ensure that the specified DASD volume is online and issue a remount to read-only and then remount back to read/write. Issue the remounts during a period of low activity to try to avoid disruption of the remount to read-only. You can also choose to do nothing and continue to run with z/OS UNIX function shipping from this system.

IOEZ00186E

Error *ErrorCode* reason *ReasonCode* encountered obtaining status on volser *Volser* for aggregate *AggrName*, macro *MacroName*.

Explanation:

An aggregate was being attached and zFS could not obtain information via the *MacroName* macro on the DASD volser shown in the message. See [Return codes \(errnos\) in z/OS UNIX System Services Messages and Codes](#) for a description of the error code. See [Appendix A, "Reason codes," on page 387](#) for a description of the reason code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Check the z/OS documentation on the *MacroName* macro to determine the source of the error. If the problem continues, contact your service representative.

IOEZ00187I

Access Registers AR *RegNumber* *Reg1* *Reg2* *Reg3* *Reg4*.

Explanation:

A zFS kernel was driven for recovery for a z/OS UNIX process. This message shows the access registers at time of error.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

This message will be followed by additional messages indicating more about the problem, oftentimes recovery is not a problem.

IOEZ00188A

zFS kernel out of storage, total of *TotalBytesM* bytes used, size attempted was *Size*, class *class*, type *type*.

Explanation:

The zFS kernel ran out of storage when attempting to obtain *Size* bytes. *TotalBytes* is the number of megabytes that has been obtained by the zFS kernel. *Class* and *Type* is information for the IBM service personnel.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Try restarting zFS with smaller cache sizes. This message is followed by output showing the zFS kernel storage map. If the problem continues, contact your service representative.

IOEZ00190E

File system *FileSystem* is mounted, operation cannot be performed.

Explanation:

A **zfsadm** command determined that the file system was mounted. The file system cannot be deleted when it is still mounted.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Unmount the file system before deleting it.

IOEZ00191E **Error deleting file system *FileSystem*, error code *ErrorCode* reason code *ReasonCode*.**

Explanation:

An unexpected error occurred while attempting to delete the file system. See [Return codes \(errno\) in z/OS UNIX System Services Messages and Codes](#) for a description of the error code. See [Appendix A, "Reason codes," on page 387](#) for a description of the reason code.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00199E **Aggregate Name cannot be detached because it is quiesced.**

Explanation:

An aggregate could not be detached because it is quiesced.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

If there are operations in progress against the aggregate such as a grow or a backup of the aggregate, then this message is expected. Retry the detach after the grow or backup is complete. Additionally, the **zfsadm unquiesce** command will unquiesce the aggregate and allow it to be detached.

IOEZ00200E **Error *ErrorCode* occurred while closing dataset '*dataset_name*'.**

Explanation:

An error occurred while the device driver was closing the named linear data set. See [Return codes \(errno\) in z/OS UNIX System Services Messages and Codes](#) for a description of the return code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Verify that data set exists and the application can write to it.

IOEZ00201E **Aggregate Name cannot be detached because it contains a file system which is mounted.**

Explanation:

An aggregate could not be detached because it contains a mounted file system.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Unmount any file systems and retry the command. The **zfsadm lsfs** command can be used to determine which file systems are mounted.

IOEZ00202E **Aggregate Name cannot be grown because it is attached read-only.**

Explanation:

An aggregate could not be grown because it is attached in read-only mode.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Detach the aggregate and re-attach the aggregate in read-write mode and re-run the command.

IOEZ00207E **Aggregate Aggrname was not found.**

Explanation:

An attempt was made to attach or format an aggregate, but no VSAM linear data set could be found with the given name.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Reissue the command specifying a valid zFS aggregate name.

IOEZ00208E **The aggregate name *Aggrname* is too long. The maximum length for an aggregate name is *length*.**

Explanation:

The aggregate name specified is too long. Aggregate names cannot exceed the maximum length specified.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Reissue the command specifying a valid zFS aggregate name.

IOEZ00209E **Error *ErrorCode* (reason *ReasonCode*) occurred while attempting to get a list of all attached aggregates.**

Explanation:

An error occurred while retrieving an aggregate list. See *Return codes (errno) in z/OS UNIX System Services Messages and Codes* for a description of the error code. See *Appendix A, "Reason codes," on page 387* for a description of the reason code.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Try to resolve the error and reissue the command.

IOEZ00210E **Error *ErrorCode* (reason *ReasonCode*) occurred while attempting to get status for aggregate *Aggrname*.**

Explanation:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Reissue the command specifying a valid zFS file system name.

IOEZ00229I

ProgramName Commands are:.

Explanation:

When the **help** subcommand or **-help** parameter is the only argument supplied for a command, a list of the valid subcommands is returned.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

None.

IOEZ00230I

ProgramName Unknown topic '*SubCommand*'.

Explanation:

The **-help** parameter is not a valid subcommand for this command.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the command again specifying a valid subcommand name.

IOEZ00231I

ProgramName Ambiguous topic '*SubCommand*'; use 'apropos' to list.

Explanation:

The **-help** parameter is ambiguous for *SubCommand* because more than one subcommand or topic can match the string. Use **apropos** to list them.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the command again using an appropriate topic that is not abbreviated.

IOEZ00232I

ProgramName: Type '*ProgramName* -help' for help.

Explanation:

The *ProgramName* command was entered without an argument; at least one is required.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the command again with one or more arguments.

IOEZ00233I

ProgramName: Type '*ProgramName* help' or '*ProgramName* help -topic *<command_name...>*' for help.

Explanation:

The *ProgramName* command suite was entered without the required command name.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the command suite again specifying an appropriate command name.

IOEZ00234I **UnkownAmbig operation 'SubCommand'; type 'ProgramName help' for list.**

Explanation:

The subcommand *SubCommand* is either ambiguous or not valid. Commands cannot be abbreviated because multiple subcommands might match the abbreviation. Type *ProgramName help* for a list of valid subcommands.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the *ProgramName* command again specifying a valid, unabbreviated subcommand.

IOEZ00235I **UnkownAmbig operation 'SubCommand'; type 'ProgramName help' for list.**

Explanation:

The subcommand *SubCommand* is either ambiguous or not valid. Commands cannot be abbreviated because multiple subcommands might match the abbreviation. Type *ProgramName help* for a list of valid subcommands.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the *ProgramName* command again specifying a valid, unabbreviated subcommand.

IOEZ00236I **'ProgramName -help'.**

Explanation:

The command was entered with a parameter that was ambiguous or not valid.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the command again using a valid parameter.

IOEZ00237I **'ProgramName SubCommand -help'.**

Explanation:

The parameter entered for the subcommand was ambiguous or not valid.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the subcommand with a valid parameter.

IOEZ00238I *ProgramName* Too many arguments.

Explanation:

Too many arguments were entered for the *ProgramName* command.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Enter the command again specifying fewer arguments.

IOEZ00239E *ProgramName* Too many values after parameter *Parameter*.

Explanation:

Too many values were entered for parameter *Parameter*. *Parameter* is a single-valued parameter and more than one value was provided on the command line.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Enter the command with only one value for the *Parameter* parameter.

IOEZ00240E *ProgramName* Missing required parameter '*Parameter*'.

Explanation:

A required parameter for this command was not entered.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Enter the command specifying a value for the required parameter.

IOEZ00241I *ProgramNameAmbigUnk* switch '*Switch*'; type the following for detailed help.

Explanation:

The switch name entered was either ambiguous, abbreviated, or an incorrect switch.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the command with a valid, unabbreviated switch name.

IOEZ00242I The parameters "*Parameter1*" and "*Parameter2*" cannot be used together.

Explanation:

The parameters *Parameter1* and *Parameter2* are mutually exclusive, both cannot be specified on same command line.

System action:

The request fails.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the command with either *Parameter1* or *Parameter2*, but not both.

IOEZ00243I

Usage: *ProgramNameSubCommand*.

Explanation:

This message displays the command syntax when the *-help* parameter is entered.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00244E

***StringType String* is longer than the maximum length of *MaxLength*.**

Explanation:

The specified string is too long.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Correct the string in error and try the operation again.

IOEZ00245E

More than *MaxValues* values are specified for parameter *Parm*. At most *MaxValues* values are allowed.

Explanation:

There are too many values specified.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Reduce the number of values and retry.

IOEZ00246E

The value *Value* of the *Parm* parameter is not numeric or is greater than *4294967295*.

Explanation:

The specified value is not numeric or is too large. A numeric value less than 4294967295 is required.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Correct the value in error and retry.

IOEZ00247E

The *ParmList* parameters are mutually exclusive. Both *Parm1* and *Parm2* have been specified. Only one may be specified.

Explanation:

More than one mutually exclusive parameter has been specified.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Ensure only one of the parameters is specified and retry.

IOEZ00248I VSAM linear dataset *Dataset* successfully created.**Explanation:**

The data set was successfully created.

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00249E There were problems creating VSAM linear dataset *Dataset*. Code = *ErrorCode*, reason = *ReasonCode*. More messages may follow.**Explanation:**

The named data set could not be created. See [Return codes \(errnos\)](#) in *z/OS UNIX System Services Messages and Codes* for a description of the error code. See [Appendix A, "Reason codes,"](#) on page 387 for a description of the reason code.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Correct any problems and retry.

IOEZ00250E The primary space specification *Primary* is invalid. A number greater than 0 is required.**Explanation:**

The primary space specification is not valid.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Specify a valid primary space.

IOEZ00251E Insufficient memory to call IDCAMS.**Explanation:**

The memory required to build the parameter list for IDCAMS could not be obtained. This memory must reside below the 16M line.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that sufficient memory is available, then try the request again.

IOEZ00252E Aggregate name '*aggrname*' contains invalid characters. Operation terminated.

Explanation:

The aggregate name contains characters which are not allowed. Operation terminated.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

See the **ioeagfmt** command in the *z/OS File System Administration* for the list of characters allowed in an aggregate name and try the operation again.

IOEZ00253E

File system name '*Filesystem*' contains invalid characters. Operation terminated.

Explanation:

The file system name contains characters which are not allowed. The operation is terminated.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response

See the **zfsadm create** command in the *z/OS File System Administration* for the list of characters allowed in a file system name and try the operation again.

IOEZ00300I

Successfully set *Option* to *Value*.

Explanation:

The zFS kernel successfully changed the indicated configuration option.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None

IOEZ00301E

Could not set *Option* to *Value*, error code *ErrorCode*, reason code *ReasonCode*.

Explanation:

The zFS kernel encountered an error while attempting to set the configuration option. See Return codes (errno) in *z/OS UNIX System Services Messages and Codes* for a description of the error code. See [Appendix A, "Reason codes,"](#) on page 387 for a description of the reason code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Consult the provided reason code. One possible cause is a value was larger than the zFS defined maximum or smaller than the zFS defined minimum for that option.

IOEZ00303E

Error *ErrorCode* reason *ReasonCode* while attempting to extend the *CacheName* cache dataspace.

Explanation:

The zFS kernel could not extend the specified log file cache dataspace and thus could not attach an aggregate.

System action:

The program continues

Severity:

svc_c_sev_error

Administrator Response:

Consult *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN* for a description of the DSPSERV macros and reason codes.

IOEZ00304E

Error *ErrorCode* reason *ReasonCode* while attempting to create the *CacheName* cache dataspace.

Explanation:

The zFS kernel could not create the indicated cache dataspace and thus could not initialize.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Consult the *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN* for a description of the DSPSERV macros and reason codes.

IOEZ00308E

Aggregate *aggrname* failed dynamic grow, (by user *userid*).

Explanation

Dynamic growth of the specified aggregate, caused by the actions of the specified user, failed. All subsequent attempts to dynamically grow the aggregate will also fail. This condition can be changed by either doing a **zfsadm grow** command, or by detaching and re-attaching the aggregate.

It is possible to see multiple copies of this message. For additional information, see [Dynamically growing a compatibility mode aggregate in *z/OS File System Administration*](#).

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Determine if the failure code represents a problem. If so, and the problem persists, contact the service representative.

IOEZ00309I

Aggregate *aggrname* successfully dynamically grown (by user *username*).

Explanation

Dynamic growth of the specified aggregate, caused by the actions of the specified user, was successful. It is possible to see multiple copies of this message. For additional information, see [Dynamically growing a compatibility mode aggregate in *z/OS File System Administration*](#).

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00312I

Dynamic growth of aggregate *aggrname* in progress, (by user *username*).

Explanation

Dynamic growth of the specified aggregate, caused by the actions of the specified user, has been initiated. A subsequent message will be issued to indicate the success or failure of this operation.

It is possible to see multiple copies of this message. For additional information, see [Dynamically growing a compatibility mode aggregate](#) in [z/OS File System Administration](#).

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00314E

The file system name *filesystem* is not unique. Its aggregate name must be specified.

Explanation:

An aggregate name must be specified to uniquely identify the file system.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that the aggregate name is specified and retry.

IOEZ00315I

There are now *Number* file systems with the name *Filesystem* in use.

Explanation:

This message is issued for informational purposes only. There are zFS file systems in different aggregates that have the same name. As of z/OS V1R9, the `allow_duplicate_filesystems` configuration option is removed and always acts like it is on (that is, duplicate zFS file system names are allowed in different aggregates).

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00317I

The value for configuration option *ConfigOption* is *ConfigValue*.

Explanation:

The named configuration option has the indicated value.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00318I

Attempting to add file system *filesystem* whose name is already in use.

Explanation:

The file system has the same name as one already in use.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00320I

No options have been specified.

Explanation:

A **zfsadm** command option has not been specified.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

Specify a valid option for the command and retry.

IOEZ00321E

Could not get value for *Option*, error code *ErrorCode* reason code *ReasonCode*.

Explanation:

The zfs kernel encountered an error while attempting to get the value of the configuration option. See [Return codes \(errno\)](#) in *z/OS UNIX System Services Messages and Codes* for a description of the error code. See Appendix A, "Reason codes," on page 387 for a description of the reason code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Correct any problems and retry.

IOEZ00322E

The file system name *filesystemname* contains invalid characters and cannot be used.

Explanation:

The named file system name cannot be attached because its name contains invalid characters. The name may not actually show invalid characters because only the first 44 characters are printed.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

None.

IOEZ00323I

Attempting to extend *aggregate_name* to *new_size control_interval_size* byte control intervals.

Explanation

The aggregate is being extended to the indicated size.

In the message text:

aggregate_name

Name of the aggregate.

control_interval_size

Control interval size of the aggregate.

new_size

New size of the data set.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00324I

Formatting to *control_interval_size* byte control interval *new_size* for secondary extents of *aggregate_name*.

Explanation

The aggregate has been extended into one or more secondary extents and one or more of those secondary extents is now being formatted. The data set will be the specified size when complete.

In the message text:

aggregate_name

Name of the aggregate.

control_interval_size

Control interval size for the data set.

new_size

New control interval size of the data set.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00324I

Formatting to 8K block number *Size* for secondary extents of *dataset_name*.

Explanation:

The aggregate has been extended into one or more secondary extents and one or more of those secondary extents is now being formatted. The data set will be the specified size when complete.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00325E

Error *Error* formatting secondary extents for *dataset_name*.

Explanation:

The attempt to format one or more secondary extents for the aggregate has failed. The z/OS UNIX System Services return code is shown. See [Return codes \(errno\)](#) in *z/OS UNIX System Services Messages and Codes* for a description of the return code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Verify that the data set exists and that the application can write to it.

IOEZ00326E**Error Error extending *dataset_name*.****Explanation:**

The attempt to extend the aggregate has failed. The z/OS UNIX System Services return code is shown. See Return codes (errno) in *z/OS UNIX System Services Messages and Codes* for a description of the return code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Verify that the data set exists and that the application can write to it. Ensure that there is enough DASD space on the data sets associated DASD volumes for the data set to be grown. Examine the syslog for any IEC070I or IOEZ00445E messages that might indicate the reason for the error.

IOEZ00327I**Done. *dataset_name* is now a zFS aggregate.****Explanation:**

zFS has finished formatting an aggregate.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00328E**Errors encountered making *dataset_name* a zFS aggregate.****Explanation:**

Errors were encountered while attempting to format a zFS aggregate.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

This message should be preceded by other messages that describe the errors encountered.

IOEZ00329I**Attempting to extend *dataset_name* by a secondary extent.****Explanation:**

The aggregate is being extended by a secondary extent.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00331A**File system name *PFSName* is invalid, must be ZFS.****Explanation:**

An incorrect name for the z/OS File System was specified in the BPXPRM file FILESYSTYPE statement. This name must be the characters ZFS.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Update the FILESYSTYPE statement and ensure that the TYPE parameter specifies ZFS, example: TYPE (ZFS).

IOEZ00334I

Return code and reason code for dump is *RSNcodeRC*.

Explanation

This message shows the return and reason code returned by SVC dump processing. The return code from SDUMPX processing is in bits 24 - 31 (the last byte). If the return code is 8, the reason code is contained in bits 16 - 23 (the third byte). See *z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU* for additional information.

In the message text:

RSNcodeRC

The return and reason code of SDUMPX processing.

Note: In some circumstances, a dump can be suppressed by the operating system.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00336I

***AggrName* could not be marked as a zFS aggregate in the catalog,
rc=*ReturnCode* rsn=*ReasonCode*.**

Explanation

After successfully attaching, or formatting a zFS aggregate, a call to the catalog service marks *AggrName* as a zFS aggregate. This operation failed. The return and reason codes are from the catalog service. This failure itself does not prevent the aggregate from being attached or formatted correctly. However, other system processing that depends on the catalog entry may not function properly. DFSMS uses this bit during backup processing (ADRDSU dump/restore) and enables the backup utility to quiesce the aggregate automatically before the backup starts, and unquiesce the aggregate when the backup ends. If the catalog bit is not set, the automatic quiesce will not occur and backup processing will fail.

In the message text:

AggrName

The name of the aggregate.

ReturnCode

The catalog service return code.

ReasonCode

The catalog service reason code.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Find the specified catalog return and reason codes documented in *z/OS MVS System Messages, Vol 6 (GOS-IEA)* (message IDC3009I), and determine the cause of the problem. This message can be the result of mounting a zFS file system using the VSAM PATH entry. Do not use a path entry as the file system name in the MOUNT command (see the topic about DEFINE PATH in z/OS DFSMS Access Method Services Commands). After

correcting the problem, to get this aggregate marked as a zFS aggregate in the catalog, unmount the file system and then mount it again. If the catalog bit is not set during the format step, the zFS task attempts to set the catalog bit during the mount processing for the zFS file system.

IOEZ00337E

zFS kernel: non-terminating exception *AbendCode* occurred, reason *ReasonCode* abend psw *PSW1 PSW2*.

Explanation

A zFS kernel encountered an exception. A dump will be issued and the internal trace table will be printed, if possible. This exception is non-terminating; the zFS kernel will continue to run, though there may be errors encountered for a given file or file system. The abend code is *AbendCode*, and the psw is given by *PSW1* and *PSW2*. See [z/OS MVS System Codes](#) for additional information about abend codes.

In the message text:

AbendCode

The z/OS abend code received.

ReasonCode

The z/OS reason code received.

PSW1

The first word of the abend PSW.

PSW2

The second word of the abend PSW.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

This message will be accompanied by additional messages indicating more about the problem. Contact your service representative.

IOEZ00338A

zFS kernel: restarting exception *AbendCode* occurred, reason *ReasonCode* abend psw *PSW1 PSW2*.

Explanation

The zFS kernel encountered an exception. A dump will be issued and the internal trace table will be printed. The zFS kernel will be internally stopped and restarted. File systems will remain mounted but some programs with open files might see I/O errors. If severe exceptions are encountered during the restart, zFS will be terminated and the system will display a BPXF032D message that must be replied to before zFS can be reinitialized. See [z/OS MVS System Codes](#) for more information about abend codes.

In the message text:

AbendCode

The z/OS abend code received.

ReasonCode

The zFS abend reason code received.

PSW1

The first word of the abend PSW.

PSW2

The second word of the abend PSW.

System action

The program (IOEFSCM) continues

Severity:

svc_c_sev_fatal

Administrator Response:

This message will be followed by additional messages indicating more about the problem. Contact your service representative.

IOEZ00340E Potential zFS hang detected. Taking informational dump...

Explanation:

The zFS Physical File System detected at least one user task that has a request that has not been satisfied for approximately three minutes. zFS considers this to be a potential hang and dumps the zFS address space for diagnosis purposes.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative and supply the dump.

IOEZ00341E zfsadm query *OptionName* failed, rc = *ReturnCode*, reason = *ReasonCode*.

Explanation

The indicated **zfsadm query** command failed. The return and reason codes may indicate the cause of the error. If possible, correct the error and retry. See *Return codes (errno)* in *z/OS UNIX System Services Messages and Codes* for a description of the error code. See *Appendix A, "Reason codes,"* on page 387 for a description of the reason code.

In the message text:

OptionName

The query option name.

ReturnCode

The z/OS UNIX System Services error code received.

ReasonCode

The zFS reason code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Correct any errors and retry the command.

IOEZ00342I Aggregate is attached. Cannot format.

Explanation:

The aggregate is attached by zFS on another system. It cannot be formatted.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Detach the aggregate before attempting to format.

IOEZ00350I Successfully joined group *GroupName*.

Explanation

zFS is initializing its sysplex support and has successfully joined the named XCF group. In the message text:

GroupName

The XCF group name.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00351E

Invalid message, command code *code* received from system *SysName*.

Explanation

An incorrect request packet was received from the remote zFS system. In the message text:

Code

The internal zFS command code.

SysName

The remote system name.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

If the problem persists, contact IBM service.

IOEZ00353E

Error *ErrorCode* reason *ReasonCode* received from system *SysName* during *OpName* for *AggrName_FileSysName*.

Explanation

An unexpected error was received while attempting to notify a remote system of the operation that was being performed. The specified operation was being performed against the specified aggregate or file system. See [Return codes \(errno\) in z/OS UNIX System Services Messages and Codes](#) for a description of the error code. See [Appendix A, "Reason codes," on page 387](#) for a description of the reason code.

In the message text:

ErrorCode

The z/OS UNIX System Services error code received.

ReasonCode

The zFS reason code.

SysName

The remote system name.

OpName

The operation that was being performed.

AggrName_FileSysName

The name of the aggregate or file system being operated on.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

If the problem persists, contact IBM service.

IOEZ00354E**Sysplex request *ServiceRequested* failed with return code *ReturnCode* and reason code *ReasonCode*.****Explanation**

zFS was attempting to use sysplex services and received a failure from the specified IXC macro. It failed with the specified return and reason codes. In the message text:

ServiceRequested

The IXC macro name.

ReturnCode

The IXC macro return code.

ReasonCode

The IXC macro reason code.

System action:

The request fails and zFS continues operating normally.

Severity:

svc_c_sev_error

Administrator Response:

Determine the cause of the failure and re-start zFS, if necessary. See *z/OS MVS Programming: Sysplex Services Reference* for additional information about IXC return and reason codes.

IOEZ00356E**Failed joining group *GroupName* as member *MemberName*, return code *ReturnCode* reason code *ReasonCode*.****Explanation**

zFS was issuing the sysplex service IXCJOIN and received the failure detailed in the message. It failed with the specified return and reason codes. In the message text:

GroupName

The sysplex group name.

MemberName

The system member name.

ReturnCode

The IXC macro return code.

ReasonCode

The IXC macro reason code.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Determine the cause of the failure and restart zFS, if necessary. You might have an incorrect XCF group name in the IOEFSPRM group option. See *z/OS MVS Programming: Sysplex Services Reference* for additional information about IXC return and reason codes.

IOEZ00357I**Successfully left the sysplex group.****Explanation:**

zFS was issuing the sysplex service IXCLEAVE to leave the sysplex group. The call was successful and this system will no longer process sysplex requests.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00358E**The attempt to create the *DaemonName* daemon failed with return code *ReturnCode*.****Explanation**

The creation of a thread for the daemon failed. See *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN* for additional information about the ATTACH macro and its return codes. In the message text:

DaemonName

The name of the daemon.

ReturnCode

The MVS™ attach return code.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

Determine why the thread could not be created by using the return code from the ATTACH macro. Correct the problem and re-start zFS. If the problem persists, contact your service representative.

IOEZ00359E**Error *ErrorCode* (reason *ReasonCode*) occurred while attempting to get a list of all systems in the XCF group for zFS.****Explanation**

An error occurred while retrieving the system names list. See Return codes (errno) in *z/OS UNIX System Services Messages and Codes* for a description of the error code. See [Appendix A, "Reason codes," on page 387](#) for a description of the reason code.

In the message text:

ErrorCode

The z/OS UNIX System Services error code.

ReasonCode

The zFS reason code.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Try to resolve the error and reissue the command.

IOEZ00360I**There are no systems in the XCF group for zFS.****Explanation:**

There are no systems currently in the XCF group for zFS.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00361I

A total of *count* systems are in the XCF group for zFS.

Explanation

The message shows the total number of systems in the XCF group for zFS. It is followed by a list of the system names.

In the message text:

count

The number of systems currently in the XCF group for zFS.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00362E

The system name *SysName* is too long.

Explanation

A system name must be no longer than 8 in length.

In the message text:

SysName

The system name that was specified.

System action

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Specify a valid system name and retry.

IOEZ00363E

The system name *SysName* is not known.

Explanation

The specified system name is not the name of the local system. In addition, for a sysplex environment, it is not the name of a known system in the sysplex.

In the message text:

SysName

The system name that was specified.

System action:

The request fails.

Severity:

svc_c_sev_error

Administrator Response:

Specify a valid system name or omit the system name and retry.

IOEZ00366E

Error *Operation* to system *System*, return code *ReturnCode*, reason code *ReasonCode*.

Explanation

zFS was attempting to use sysplex services to send data to the specified system. It failed with the specified return and reason codes from the sysplex services IXCMGSO macro. This data could have been sent as a reply to a message or as a new message.

In the message text:

Operation

The sysplex operation.

System

The target system.

ReturnCode

The IXC macro return code.

ReasonCode

The IXC macro reason code.

System action:

The request fails and zFS continues operating normally.

Severity:

svc_c_sev_error

Administrator Response:

Determine the cause of the failure and re-start zFS, if necessary. See [z/OS MVS Programming: Sysplex Services Reference](#) for additional information about IXC return and reason codes.

IOEZ00368I

A total of *Count* aggregates are attached to system *SysName*.

Explanation

The message shows how many aggregates are on a system when -system is specified.

In the message text:

Count

The count of aggregates.

SysName

The system name.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00369I

A total of *AggrCount* aggregates are attached to the sysplex.

Explanation

The message shows how many aggregates are attached to the sysplex.

In the message text:

AggrCount

The count of aggregates.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00370I

A total of *AggrCount* aggregates are attached.

Explanation

This message shows how many aggregates are on a system with -system unspecified.

In the message text:

AggrCount

The count of aggregates.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00371E

Insufficient memory to allocate *NumBytes* bytes.

Explanation

An error occurred while attempting to allocate memory needed to process the command.

In the message text:

NumBytes

The number of bytes.

System action:

The request fails, and zFS continues operating normally.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that sufficient memory is available, then try the request again.

IOEZ00373E

Error *ReturnCode*, reason *ReasonCode* received opening parmlib.

Explanation

An error was received while attempting to open the parmlib. The return code from the IEFPRMLB macro is shown. See [z/OS MVS Programming: Authorized Assembler Services Reference EDT-IXG](#) for information about the IEFPRMLIB macro and its reason codes.

In the message text:

ReturnCode

The return code received from the IEFPRMLB macro.

ReasonCode

The reason code received from the IEFPRMLB macro.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that the parmlib is accessible to the program and try the operation again.

IOEZ00374I

No IOEZPRM DD specified in *name* proc. Parmlib search being used.

Explanation:

This message notifies the user that parmlib search is being used. *name* is the name of the address space where zFS is running.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00380E Specified vnode cache size *Config_vnode_size* is invalid. Using value *vnode_size*.

Explanation

During initialization, zFS found that the value specified in the configuration data set for **vnode_cache_size** is not valid. The value must be a number in the range of 32 to 500000. zFS initialization continues.

In the message text:

Config_vnode_size

The configuration data set specification for the vnode size.

vnode_size

The value being used for the size.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that zFS is running with acceptable values for both the size of the vnode cache and the limit of the vnode cache. If not, update the configuration data set variables.

IOEZ00381E Error *ErrorCode* reason *ReasonCode* received while attempting to move aggregate *AggrName* to system *System*.

Explanation

An unexpected error was received while attempting to move aggregate *AggrName* to system *System*.

In the message text:

ErrorCode

The error code received.

ReasonCode

The reason code received.

AggrName

The aggregate name.

System

The system name.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Try to resolve the error and reissue the command.

IOEZ00382I Aggregate *AggrName* is now owned by system *System*.

Explanation

Aggregate *AggrName* was successfully moved to *System*.

In the message text:

AggrName

The aggregate name.

System

The system name.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00383E

Unrecoverable error encountered for inode *Inode* uniquifier *Uniquifier* in filesystem *FileSetName*.

Explanation

A fatal error was encountered for an object with inode *Inode* in filesystem *FileSetName*. Future accesses to the file system object may fail and updates may be lost.

In the message text:

Inode

The inode of the object in error.

Uniquifier

The uniquifier of the object in error.

FileSetName

File system that contains the object.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00385E

Sysplex sharing error encountered for aggregate *AggrName*.

Explanation

An internal error was encountered for aggregate *AggrName*. Recent updates might be lost. Future accesses to the aggregate might fail. Unmount and remount the aggregate. If that does not clear the problem, restart zFS. If the problem still exists, restart zFS on all the systems in the sysplex.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00387I**System *SysName* has left group *GroupName*, aggregate recovery in progress.****Explanation**

A zFS system has detected that another system in the sysplex has gone down. The remaining systems in the sysplex will begin aggregate recovery to attach aggregates owned by the down system.

In the message text:

SysName

The system name.

GroupName

The sysplex group name.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00388I**Aggregate takeover being attempted for aggregate *AggrName*.****Explanation**

A zFS system has either been asked to assume ownership for an aggregate or it has detected that another system in the sysplex went down and is attempting to takeover ownership of the aggregate.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00389I**Error *ErrorCode* reason *ReasonCode* occurred while attempting takeover of *AggrName*.****Explanation**

A zFS system has encountered an error while attempting to assume ownership of an aggregate. See [Return codes \(errno\)](#) in *z/OS UNIX System Services Messages and Codes* for a description of the error code. See [Appendix A, "Reason codes," on page 387](#) for a description of the reason code.

In the message text:

ErrorCode

The z/OS UNIX System Services error code received.

ReasonCode

The zFS reason code.

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Contact your service representative.

IOEZ00390I**recovery statistics:.****Explanation:**

This message notifies the user that an aggregate underwent recovery. This is normal if the aggregate was not detached cleanly before a stop or an outage of zFS.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None. See *z/OS File System Administration* for additional information about log files.

IOEZ00391I**Elapsed time was *time* ms.****Explanation**

This message indicates the amount of time aggregate recovery took. This is normal if the aggregate was not detached cleanly before a stop or an outage of zFS.

In the message text:

time

The elapsed time in milliseconds.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None. See *z/OS File System Administration* for additional information about log files.

IOEZ00392I***NumPages* log pages recovered consisting of *NumRecords* records.****Explanation**

This message indicates the number of log pages and records read while recovering a zFS aggregate. This is normal if the aggregate was not detached cleanly before a stop or an outage of zFS.

In the message text:

NumPages

The number of pages.

NumRecords

The number of records.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None. See *z/OS File System Administration* for additional information about log files.

IOEZ00393I**Modified *NumBlocks* data blocks.**

Explanation

This message indicates the number of metadata blocks on disk updated by the recovery process. This is normal if the aggregate was not detached cleanly before a stop or an outage of zFS. In the message text:

NumBlocks

The number of data blocks.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None. See *z/OS File System Administration* for additional information about log files.

IOEZ00394I**NumDataRecords redo-data records, NumFillRecords redo-fill records.**

Explanation

This message indicates the number of transaction records committed to disk. This is normal if the aggregate was not detached cleanly before a stop or an outage of zFS.

In the message text:

NumDataRecords

The number of redo data records.

NumFillRecords

The number of redo fill records.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None. See *z/OS File System Administration* for additional information about log files.

IOEZ00395I**NumDataRecords undo-data records, NumFillRecords undo-fill records.**

Explanation

This message indicates the number of transaction records rolled back. This is normal if the aggregate was not detached cleanly before a stop or an outage of zFS.

In the message text:

NumDataRecords

The number of undo data records.

NumFillRecords

The number of undo fill records.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None. See *z/OS File System Administration* for additional information about log files.

IOEZ00396I**NumBlocks not written blocks.**

Explanation

This message indicates the number of transaction records not committed because the block was reused to contain user-file data. This is normal if the aggregate was not detached cleanly before a stop or an outage of zFS.

In the message text:

NumBlocks

The number of blocks.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None. See *z/OS File System Administration* for additional information about log files.

IOEZ00397I recovery statistics for *AggrName*:.

Explanation

This message notifies the user that an aggregate underwent recovery. This is normal if the aggregate was not detached cleanly before a stop or an outage of zFS.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None. See *z/OS File System Administration* for additional information about log files.

IOEZ00398E Specified vnode cache size *Config_vnode_size* is greater than the vnode cache limit. Using value *vnode_size*.

Explanation

During initialization, zFS found that the value specified in the configuration data set for *vnode_cache_size* is greater than the value for maximum size allowed for the vnode cache. The value must be a number in the range of 32 to 500000. zFS initialization continues.

In the message text:

Config_vnode_size

The configuration data set specification for the vnode size.

vnode_size

The value being used for the size.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that zFS is running with an acceptable size for the vnode cache size. If not, update the configuration dataset variable *vnode_cache_size*.

IOEZ00400I *NumBlocks* blocks zeroed.

Explanation

This message indicates the number of disk blocks zeroed out because the block was used to contain user-file data, but the I/O had not yet completed, or was canceled. This was done because the new block security (NBS) configuration option was in effect for the aggregate. This is normal if the aggregate was not detached cleanly before a stop or an outage of zFS.

In the message text:

NumBlocks

The number of blocks.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00401I

No report option specified to be reset.

Explanation:

A **zfsadm query** command was entered, with the `-reset` specified. However, no other options were specified along with it. No statistics were reset.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

Specify a valid statistic option for the command and retry.

IOEZ00405I

***ProgramName* Option *Option* has been processed. This specification is ignored.**

Explanation

The specified option was already processed. The option was either explicitly specified previously or implicitly assumed according to the option omission rules. We are ignoring this specification.

In the message text:

ProgramName

The program name.

Option

The option.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Enter the command with only one value for the *option* option.

IOEZ00410I

Shareoptions for aggregate *AggrName* altered. New value is (3,3).

Explanation

The shareoptions for the indicated aggregate were altered.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00411I

Alter for shareoptions failed for aggregate *AggrName*.

Explanation

The shareoptions for the indicated aggregate could not be altered to (3,3).

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

The trace will contain IDCAMS messages. Correct the problem and retry.

IOEZ00412I

Catalog search failed for aggregate *AggrName*. Shareoptions are not altered.

Explanation

The shareoptions for the indicated aggregate could not be determined; they are not altered.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

None.

IOEZ00413I

IGGCSI00 could not be loaded. Shareoptions for aggregate *AggrName* are not altered.

Explanation

The shareoptions for the indicated aggregate could not be determined because the catalog search routine could not be loaded. The shareoptions are not altered.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

Ensure IGGCSI00 is installed and retry.

IOEZ00416I**Aggregate *AggrName* moved to system *SystemName* at shutdown.****Explanation**

The zFS kernel owning the specified aggregate moved the aggregate to another system to allow shutdown to continue.

In the message text:

AggrName

The aggregate name.

SystemName

The system name.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00417E**Error *ErrorCode* reason *ReasonCode* received moving aggregate *AggrName* to *SystemName* at shutdown.****Explanation**

The zFS kernel owning the specified aggregate tried to move the specified aggregate to the specified system but failed. Shutdown will continue by attempting to move the aggregate to a different system name. If all systems fail, then the aggregate will be detached, but some file updates may be lost. See [Return codes \(errno\) in z/OS UNIX System Services Messages and Codes](#) for a description of the error code. See [Appendix A, "Reason codes," on page 387](#) for a description of the reason code.

In the message text:

ErrorCode

The z/OS UNIX System Services error code received.

ReasonCode

The zFS reason code received.

AggrName

The aggregate name.

SystemName

The system name.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

None.

IOEZ00418I**Error associating mount name *mountname* to *sysname*.**

Explanation

The zFS kernel encountered a problem associating the specified mount name to the indicated file system. The only affect this will have is that mount name options of the various zFS administrative commands will not work correctly. This has no bearing on whether the file system mount succeeded. Check for other messages indicating the success or failure of the mount process.

In the message text:

mountname

The mount name.

sysname

The system name.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Do not use the mount name options on the administrative commands that normally allow them to be used. Instead, full specifications in terms of file system name and aggregate name will need to be used.

IOEZ00420E

Syntax error string *String* on line(s) *StartLine:EndLine* in parmlib member *StartParmlibSuffix:EndParmlibSuffix*.

Explanation

A syntax error was found while parsing the parmlib member containing the zFS configuration parameters. The line in error is shown as an aid to the administrator.

In the message text:

String

The text in error.

StartLine

The starting line number of the statement in error.

EndLine

The ending line number of the statement in error.

StartParmlibSuffix

The first parmlib member suffix.

EndParmlibSuffix

The last parmlib member suffix.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Correct the line in error and try the operation again.

IOEZ00421E

Insufficient memory to allocate *NumBytes* bytes.

Explanation

An error occurred while attempting to allocate memory needed to process the command.

In the message text:

NumBytes

The number of bytes.

System action

The request fails, and zFS continues operating normally.

Severity:

svc_c_sev_error

Administrator Response:

Allocate more storage and retry the request.

IOEZ00422E

Aggregate *Aggrname* disabled.

Explanation

An error was found while processing requests for the specified aggregate. As a result, all reads and writes to the aggregate are prevented. In the message text:

AggrName

The aggregate name.

System action

zFS continues operating normally for all other aggregates; the specified aggregate is disabled.

Severity:

svc_c_sev_error

Administrator Response

If there were reported IO errors, perhaps due to lost connectivity to DASD or device failures, ensure that the hardware is working properly and then unmount the filesystem and run IOEAGSLV to repair any corruption that may have occurred. IOEAGSLV will attempt to repair the aggregate but it may not always be successful. Then, try reattaching or remounting the filesystem. If a remount does not work, zFS must be stopped and restarted to allow for the aggregate to be attached in write mode. If this condition persists, contact your service representative.

If there were no reported IO errors, there is less probability of a corruption. You may allow zFS to attempt to automatically reenabte the aggregate; however, if the disabled aggregate was corrupt, the reenabled aggregate will remain corrupt. To definitively determine if the aggregate is corrupt, follow the procedure previously stated for the IO error case and run IOEAGSLV. While IOEAGSLV is running, the aggregate will be offline. Larger aggregates, will take longer to inspect and repair and, hence, will remain offline longer.

For more information, see the topic about [Diagnosing disabled aggregates](#) in *z/OS File System Administration*.

IOEZ00424E

Internal lock error, aggregate *AggrName* must be detached and the format restarted.

Explanation

An internal lock could not be obtained to complete the request to format the specified aggregate. The aggregate must be detached and the format restarted.

In the message text:

AggrName

The aggregate name.

System action:

zFS continues operating normally for all other aggregates. The specified aggregate cannot be formatted.

Severity:

svc_c_sev_error

Administrator Response:

Detach the aggregate and attempt to format again.

IOEZ00425E**UNQUIESCE FAILURE: rc = *ReturnCode* rsn = *ReasonCode*.****Explanation**

An error occurred while attempting a console command aggregate unquiesce. See [Return codes \(errno\)](#) in *z/OS UNIX System Services Messages and Codes* for a description of the error code. See [Appendix A, "Reason codes,"](#) on page 387 for a description of the reason code. In the message text:

ReturnCode

The return code.

ReasonCode

The reason code.

System action:

zFS continues operating normally for all other aggregates, the specified aggregate remains quiesced.

Severity:

svc_c_sev_error

Administrator Response:

Check the return code (rc) and the reason code (rsn) and respond accordingly. If the return code is 129 (ENOENT) and the reason code is EFxx6775 (the xx can be anything), then the aggregate is not owned on this system. Issue the MODIFY UNQUIESCE from the owning system. Use the z/OS UNIX **zfsadm lsaggr** command to determine which system owns the aggregate.

IOEZ00426E**UNQUIESCE FAILURE: too many input parameters.****Explanation:**

The user input an extraneous token when they typed the aggregate unquiesce command.

System action:

zFS continues operating normally for all other aggregates, the specified aggregate remains quiesced.

Severity:

svc_c_sev_error

Administrator Response:

Check the syntax and enter the command again.

IOEZ00433E**Internal error, aggregate *AggrName* cannot be detached from zFS.****Explanation**

An internal error was found while processing a request to detach the specified aggregate. The detach problem could not be internally fixed. The aggregate can no longer be detached and hence is unusable until zFS is restarted.

In the message text:

AggrName

The aggregate name.

System action:

zFS continues operating normally for all other aggregates, the specified aggregate can no longer be detached or attached.

Severity:

svc_c_sev_error

Administrator Response:

zFS will need to be restarted to clear this error condition. A dump will likely be obtained by zFS, contact your service representative.

IOEZ00434E**Error creating zFS kernel trace, error code=*ErrorCode* reason code=*ReasonCode*.**

Explanation

An unexpected error occurred creating zFS kernel trace. See [Return codes \(errno\) in z/OS UNIX System Services Messages and Codes](#) for a description of the error code. See [Appendix A, “Reason codes,” on page 387](#) for a description of the reason code.

In the message text:

ErrorCode

The error code that was returned from the zFS kernel.

ReasonCode

The reason code that was returned from the zFS kernel.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00435E

Error aborting the zFS kernel, error code=*ErrorCode* reason code=*ReasonCode*.

Explanation

An unexpected error occurred aborting the zFS kernel. See [Return codes \(errno\) in z/OS UNIX System Services Messages and Codes](#) for a description of the error code. See [Appendix A, “Reason codes,” on page 387](#) for a description of the reason code.

In the message text:

ErrorCode

The error code that was returned from the zFS kernel.

ReasonCode

The reason code that was returned from the zFS kernel.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00436E

Disabling IO to DASD volume *VolumeName*.

Explanation

An internal error has forced zFS to temporarily disable IO to a particular DASD volume. All queued IO is stopped with error and IO to the DASD volume remains suppressed until in-progress IO to the DASD volume completes. This message will normally be preceded by a dump to provide necessary service information. Once all in-progress IO completes, the DASD IO queue is re-initialized and future IOs will be allowed from that point in time.

In the message text:

VolumeName

The name of the DASD volume.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00437I**IO to DASD volume *VolumeName* has been enabled.****Explanation**

An internal error had forced zFS to temporarily disable IO to a particular DASD volume; the internal error state has been cleaned up and IO to the DASD volume is now allowed.

In the message text:

VolumeName

The name of the DASD volume.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00438I**Starting Query Command *QueryName*.****Explanation**

Starting to run a query command.

In the message text:

QueryName

The name of the query being run.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00439E**Read-only aggregate *aggregate_name* is also mounted read/write on system *system_name*.****Explanation**

The aggregate is either mounted or attached read-only on a local system and is also mounted or attached in read/write mode on another system. The local system might encounter errors on subsequent reads.

In the message text:

aggregate_name

The aggregate name.

system_name

The read/write system name.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

Unmount or detach the aggregate from all systems and then remount or reattach it in the desired mode. If you unmount read/write aggregate first, you might get error messages on the read-only systems.

IOEZ00440E**Internal error found while processing read-only aggregate *AggrName*.****Explanation**

An internal error was found while processing requests for the specified aggregate. The aggregate may be attached read-write on another system. A changed aggregate will most likely result in errors on the read-only system.

In the message text:

AggrName

The aggregate name.

System action:

zFS continues operating normally. Other errors may be encountered for this aggregate if it is not unmounted and remounted.

Severity:

svc_c_sev_error

Administrator Response:

Try quiescing the aggregate on the read-write system and then unmounting and remounting the file system.

IOEZ00441E**Operation failed for aggregate *AggrName*. ZFS does not support striped data sets.****Explanation**

The Aggregate name could not be formatted.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Use a non-striped VSAM linear data set.

IOEZ00442E**Operation failed. ZFS does not support striped data sets.****Explanation:**

The Aggregate could not be formatted.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Use a non-striped VSAM linear data set.

IOEZ00443E**Message output dataset (*dsname*) has lrecl too small.****Explanation**

An error occurred while attempting to write to the message output data set defined by `msg_output_dsn`. The LRECL is less than 248.

In the message text:

dsname

the data set name that the error occurred on.

System action:

The program continues. Messaging will not occur to that data set.

Severity:

svc_c_sev_error

Administrator Response:

Allocate a new `msg_output_dsn` data set and be sure the LRECL is at least 248. Use the **zfsadm config** command, option `-msg_output_dsn`, to tell zFS to use it.

IOEZ00444E

Could not write to trace output dataset - lrecl too small.

Explanation:

A zFS program could not print the in-memory trace table because the lrecl of the data set defined by the configuration parameter `trace_dsn` is less than 133.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Allocate a new trace data set and be sure that it has an lrecl of at least 133. Use the **zfsadm config** command, option `-trace_dsn`, to tell zFS to use it.

IOEZ00445E

Error extending *AggrName*. DFSMS return code = *DFSMScode*, PDF code = *PDFcode*.

Explanation

The attempt to extend the aggregate has failed. The DFSMS return code and PDF code are shown. Refer to message IEC070I and IEC161I in [z/OS MVS System Messages, Vol 7 \(IEB-IEE\)](#) for additional information.

In the message text:

AggrName

The aggregate name.

DFSMScode

The DFSMS return code.

PDFcode

The Problem Determination Function (PDF) return code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response

Verify that the data set exists and that the application can write to it and ensure that there is enough DASD space on the data sets associated with the DASD volumes.

If the aggregate was not defined with extended addressability, also ensure that the size of the aggregate does not exceed the maximum allowed size of 4GB. For other errors, check the system log for any IEC messages for this aggregate that contain the DFSMS and PDF codes specified in the message. If any are found, follow the diagnostic procedures listed for these codes in the IEC messages.

IOEZ00447E

System *SystemName* went down or did not reply to *OperationName* for *Name*.

Explanation

An unexpected error was received while attempting to notify a remote system of operation *OperationName*. The operation was being done for the aggregate or file system *Name*.

In the message text:

SystemName

The remote system name.

OperationName

The operation that was being performed.

Name

The name of the aggregate or file system name being operated on.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

If the problem persists, contact your service representative.

IOEZ00451E

Error in allow striped, error code=*ErrorCode* reason code=*ReasonCode*.

Explanation

An unexpected error occurred allowing use of striped data sets. See [Return codes \(errno\) in z/OS UNIX System Services Messages and Codes](#) for a description of the error code. See [Appendix A, "Reason codes," on page 387](#) for a description of the reason code.

In the message text:

ErrorCode

The error code that was returned from the zFS kernel.

ReasonCode

The reason code returned from the zFS kernel.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00453I

Processing xcf trace message from system *SystemName*.

Explanation

Producing a trace at the request of the indicated system.

In the message text:

SystemName

The remote system name which sent the xcf message.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00500I

Converting *AggrName* for fast mount processing.

Explanation

The zFS kernel is converting an aggregate for fast mount processing. Once the conversion is done, all future mounts or attaches of this aggregate will occur faster.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00501E

Internal error converting bitmap file in *AggrName* for fast mount.

Explanation

The zFS kernel was converting an aggregate for fast mount processing and encountered an internal error while attempting to convert the bitmap file.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Obtain a dump of the zFS address space by using the F ZFS,DUMP command, then contact your service representative.

IOEZ00502E

Internal error salvaging bitmap, could not get status, code=*ErrorCode*.

Explanation

The **ioeagslv** program failed to obtain status information for the bitmap file. The free space numbers recorded on disk will be incorrect and the aggregate cannot be salvaged. See [Return codes \(errno\)](#) in *z/OS UNIX System Services Messages and Codes* for a description of the return code.

In the message text:

ErrorCode

The error code from the getstatus operation.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00503E

Bitmap computed blocksFree=*CompBlocks* fragsFree= *CompFrag*s, on disk blocksFree=*NumBlocks*, fragsFree=*NumFrag*s.

Explanation

The **ioeagslv** program determined the recorded number of free blocks and fragments on disk does not match the number computed by the salvage program.

In the message text:

CompBlocks

The computed number of free blocks in the aggregate.

CompFrgs

The computed number of free fragments in the aggregate.

NumBlocks

The number of free blocks recorded in the aggregate.

NumFrgs

The number of free fragments recorded in the aggregate.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

If the **ioeagslv** program was run with the default options or was run with the **-salvageonly** option, then the **ioeagslv** program will correct the free space numbers recorded on disk; otherwise, the free space numbers recorded on disk are incorrect and the **ioeagslv** program should be run with the default options or the **-salvageonly** option to correct the information on disk.

IOEZ00504E

Internal error salvaging bitmap, could not set status, code=ErrorCode.

Explanation

The **ioeagslv** program failed to correct the status and free space information for the bitmap file. This means the free space information on disk cannot be corrected and the aggregate cannot be salvaged. See [Return codes \(errno\)](#) in *z/OS UNIX System Services Messages and Codes* for a description of the return code.

In the message text:

ErrorCode

Error code from the setstatus operation.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00505I

**Corrected free space information, blocksFree=NumBlocks
fragsFree=NumFrgs.**

Explanation

The **ioeagslv** program successfully corrected the free space information recorded for the bitmap file. This means the bitmap file has been successfully restored on disk.

In the message text:

NumBlocks

The corrected number of free blocks on disk.

NumFrgs

The corrected number of free fragments on disk.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00506E

FILESYSTYPE PARM too long, length = *length*.

Explanation

The FILESYSTYPE PARM is too long. The length of the specified string is provided in the message. The maximum length is 1024 characters.

In the message text:

length

The length of the string.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00507E

Error in FILESYSTYPE PARM specification *string*.

Explanation

There is an error in the FILESYSTYPE PARM, as specified in the message.

In the message text:

string

The FILESYSTYPE PARM string.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00508E

Suffix at position *position* too long.

Explanation

The suffix starting in the specified column position is too long.

In the message text:

position

The position of the error.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00509E

Comma or right paren expected at position *position*.

Explanation

A comma or a right parenthesis should have been in the specified column position, but is not.

In the message text:

position

The position of the error.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00510E

Suffix at position *position* not two alphanumeric chars.

Explanation

The specified suffix should be two characters long, but is not. The suffix specification should be in the specified column position.

In the message text:

position

The position of the error.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00511E

No suffixes found at position *position*.

Explanation

No valid parmlib suffix specification was found at the specified position.

In the message text:

position

The position of the error.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00512E

No closing paren found at position *position*.

Explanation

A closing parenthesis was not found where one was expected, in the specified column position.

In the message text:

position

The position of the error.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00513E

No open paren found at position *position*.

Explanation

Parmlib suffix specifications require parentheses around them. There is no opening parenthesis found. It is expected in the specified column position.

In the message text:

position

The position of the error.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00514E

No equals sign found at position *position*.

Explanation

Parmlib suffix specifications require an equals sign. It is expected in the specified column position.

In the message text:

position

The position of the error.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00515E

Extra characters were found at position *position*.

Explanation

Extra characters are not allowed. They start in the specified column.

In the message text:

position

The position of the error.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00516E**PRM not found at position *position*.****Explanation**

No PRM was found for parmlib suffix specifications. It is expected in the specified column.

In the message text:

position

The position of the error.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem and restart zFS. If the problem persists, or there is no error, contact your service representative.

IOEZ00518I**Converting filesystem *FileSystem* to allow for fast mount.****Explanation**

The zFS kernel is converting the file system to a format that will allow for fast mounting. Fast mounting will allow for the efficient handling of a large number of objects in the file system.

In the message text:

FileSystem

Name of the file system.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00519E**Error *ErrorCode* converting filesystem *FileSystem*.****Explanation**

The zFS kernel could not convert the file system to a version that will allow for fast mounts. The file system will remain in the prior format. The file system should still mount successfully.

In the message text:

ErrorCode

The internal error code received.

FileSystem

Name of the file system.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00520E**Error *ErrorCode* salvaging filesystem *FileSystem*.****Explanation**

The zFS salvage program could not correct the file system control information. The file system may be permanently damaged.

In the message text:

ErrorCode

The internal error code received.

FileSystem

Name of the file system.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00521I**Salvaging filesystem *FileSystem* free space control information.****Explanation**

The zFS salvage program is correcting the file system free space information on disk due to either a problem found with this information or there were corrupted files in the file system which required corrections to the file system control information.

In the message text:

FileSystem

Name of the file system.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Contact your service representative.

IOEZ00522E**Filesystem *FileSystem* is not in a compat aggregate. It cannot be mounted.****Explanation**

Mounts for file systems which do not reside in a compat aggregate are not allowed.

In the message text:

FileSystem

Name of the file system.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that the file system resides in a compat aggregate before retrying the mount.

IOEZ00523I**zFS no longer supports the stop command. Please issue `f omvs,stoppfs=zfs`.****Explanation:**The stop command is not supported. Issue the **omvs stoppfs** command.**System action:**

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:Issue **f omvs,stoppfs=zfs**.

IOEZ00524I**zFS has a potentially hanging thread caused by: *UserList*.****Explanation**

zFS Hang Detector found a thread that could be hanging.

In the message text:

UserList

This a list of address space IDs and TCB addresses causing the hang

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response

Monitor the potential hang. You can enter **f zfs,query,threads** command to see the thread states. If the problem persists, try cancelling the hung address space IDs. If the problem continues, contact your IBM service representative (if you have set up the trace data set, the **f zfs,trace,print** command can gather trace information). You can also enter **f zfs,hangbreak**, but prepare for additional, extraneous dumps.

For complete details for message and hang detection, see [z/OS File System Administration](#).

IOEZ00536E**First block of *FirstBlock* (block size *BlockSize*) starts the file system at byte $FirstBlock * BlockSize$, which is after the canonical superblock address of *SuperAddr*.****Explanation**

An invalid initial empty value has been specified. The number specified is too large. You cannot specify a number larger than 8.

In the message text:

FirstBlock

The size of the specified block.

BlockSize

The 8K block size.

SuperAddr

The address of the superblock (64K).

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Specify a valid `initialempty` value and retry.

IOEZ00537E

Log has bad checksum length.

Explanation:

Recovery failed. The checksum length recorded on the disk does not match the checksum version recorded on the disk.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Run salvage and retry.

IOEZ00538I

Log has unknown checksum type on disk. Ignoring checksum check.

Explanation:

Ignoring unknown checksum type on disk.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00539E

Unable to retrieve checksum in log page.

Explanation:

Recovery failed.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Run salvage and retry.

IOEZ00540I

Log is using unknown checksum version *CurrentVersion*, Changing to use version *NewVersion*.

Explanation

Setting the checksum version.

In the message text:

CurrentVersion

The version in use.

NewVersion

The new version.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00545E

A conversion of aggregate *AggrName* to version 3 is not complete. The conversion must be complete before the aggregate is usable.

Explanation

Use IOEAGSLV to complete the conversion to version 3 and retry the request.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

None.

IOEZ00547I

zFS has a potentially hanging XCF request on systems:*Systemnames*.

Explanation

The zFS hang detector identified that a thread sent a message to another member of the sysplex, as indicated in the list, and is possibly hanging because it is waiting for the reply, because XCF is stalled or delayed, or because of some other reason.

In the message text:

Systemnames

The list of system names.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Monitor the potential hang. Check the other members of the sysplex specified in the list to see if there is an obvious reason for the seemingly long wait for the reply. For complete details for messages and hang detection, see the topic about [Understanding zFS hang detection](#) in *z/OS File System Administration*.

IOEZ00548I

Requesting that *MemberName* takeover aggregate *AggrName* (requests: local *LocalReqs*, new owner *NewOwnerReqs* total *TotalReqs*).

Explanation

This message can be issued when either of the following situations occurs:

- The local system is requesting that the named member take over the aggregate to reduce XCF communication.
- The aggregate has become disabled and zFS is attempting to automatically recover the aggregate.

In the message text:

MemberName

The member name.

AggrName

The aggregate name.

LocalReqs

The number of requests processed from the current owning system during the measurement period.

NewOwnerReqs

The number of requests processed from *MemberName* during the measurement period.

TotalReqs

The total number of requests processed from all systems during the measurement period.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00549E **Media Manager return code *ErrorCode* for aggregate *Aggr_name*.****Explanation:**

The Media Manager return code was non zero for the specified aggregate.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Look up the error in the Media Manager return codes section in *z/OS DFSMSdfp Diagnosis*.

IOEZ00550E **zFS I/O timed out for aggregate *aggregate name*.****Explanation**

A physical I/O error occurred because the amount of I/O time needed to attach aggregate *aggregate name* took more than four minutes to complete.

In the message text:

aggregate name

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Determine if there is a real hardware error. If there is, then take steps to correct the problem. Otherwise, contact your service representative.

IOEZ00551E **Aggregate *AggrName* ran out of space.****Explanation**

The aggregate ran out of space. zFS will attempt to dynamically grow the aggregate if it is eligible to be dynamically grown.

In the message text:

AggrName

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that there is sufficient space on the aggregate.

IOEZ00553E**Unable to format. Aggregate is attached.****Explanation:**

Cannot format an aggregate because it is attached and in use.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

None.

IOEZ00555E**-system cannot be specified without -all.****Explanation:**

A **zfsadm detach** command specified **-system** without **-all**. **-all** is required when using **-system**.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Retry the command specifying valid options.

IOEZ00557E**zfsadm command failed, rc = *ReturnCode*, reason = *ReasonCode*.****Explanation**

The indicated **zfsadm** command failed. The return and reason codes might indicate the cause of the error. If possible, correct the error and retry.

In the message text:

ReturnCode

The return code.

ReasonCode

The reason code.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Correct any errors and retry the command.

IOEZ00558E**An internal error occurred waiting for retry of a user task dump for *asid*.****Explanation**

zFS attempted to take a dump of a user task in the *asid*. The dump might have failed because the address space was taking another dump. In an attempt to get a dump, zFS retries the SDUMPX call on the zFS task. If an internal error occurs while attempting to wait for the zFS task to complete, then the dump might not finish before the user task completes the zFS request. The dump might not prove useful in resolving the reason for dumping; contact your IBM service representative.

In the message text:

asid

The user task address space ID.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00559I

***progname: Initializing prodname featurename Version ver.rel.mod
Service Level slv. Created on date. Address space asid.***

Explanation

This message is issued when the named zFS program starts. It identifies the product name, feature name, version, release, modlevel, service level, creation date and asid of the zFS program.

In the message text:

progname

The program name.

prodname

The product name.

featurename

The feature name.

ver

The product version.

rel

The product release.

mod

The product modification level.

slv

The product service level.

date

The date and time the zFS program was created.

asid

The asid of the address space.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00576E

***SystemName is not at the minimum acceptable service level of
ServiceLevel. Returning error.***

Explanation

This message is issued on a sysplex member that is receiving messages from a member trying to come up. The sysplex member that is already up requires the minimum service level indicated. The system initializing is not at the minimum service level. An error will be returned to the system initializing.

In the message text:

SystemName

The name of the remote system initializing.

ServiceLevel

The service level required on the remote system.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Apply service and then restart zFS. For more information, see the topic about applying required APARs in [z/OS File System Administration](#).

IOEZ00579I**Restarting Program, Restart count Count.****Explanation**

This message is issued when the named zFS program restarts. It identifies the restart count of the zFS program.

In the message text:

Program

The program name.

Count

The number of restarts zFS has taken.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00581E**There are quiesced zFS aggregates.****Explanation**

This message appears on a system that has at least one zFS aggregate that is quiesced. There is a time delay between when the aggregate is quiesced and when the message appears. When there are no quiesced zFS aggregates on the system, this message is removed. There is also a delay between when the last aggregate is unquiesced and when the message is removed. The message is handled by a thread that wakes up every 30 seconds and checks to see if there are any quiesced aggregates owned by this system. It is possible for an aggregate to be quiesced and unquiesced in the 30 second sleep window of the thread and no quiesce message to appear. The message remains if one aggregate is unquiesced and another is quiesced within the 30 second sleep window.

The purpose of the message is to aid in diagnosis when there is an apparent hang. The message indicates that there is at least one quiesced aggregate and the apparent hang might be due to a quiesced aggregate. File I/O to a quiesced aggregate is held up until the aggregate is unquiesced. An aggregate is normally quiesced during backup and unquiesced when the backup is done.

To determine which aggregates are quiesced, use the z/OS UNIX **zfsadm lsaggr** command. After you determine which aggregates are quiesced, you can use the **zfsadm aggrinfo -long** command to determine who quiesced the aggregate (the job name, system, and time stamp). You can also use the MVS command **F ZFS,QUERY,FILE,ALL** to determine which aggregates are quiesced, especially in automation scripts that issue commands to the console. It is possible that the output of the command might not exactly match the message (message displayed with no quiesced aggregates owned by this system or no message with quiesced aggregates owned by this system).

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Determine whether the aggregate should be unquiesced. See the topic about [Understanding zFS hang detection in z/OS File System Administration](#).

IOEZ00587I **zFS Release level cannot change during a recycle, zFS must terminate.**

Explanation:

zFS cannot change its release level without fully terminating the address space. zFS will assert and go down after issuing this message. It can then be restarted at any desired release.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

Do not attempt to change the current zFS release by an internal restart.

IOEZ00589E **Aggregate *Aggrname* failed to reopen. *Membername* cannot become the zFS owner of this aggregate.**

Explanation

The aggregate failed to reopen locally, possibly due to a DASD outage, some other connectivity difficulty due to the DASD or a hardware failure. This member cannot become the owner of this aggregate. z/OS UNIX will continue to send file operations to this member, expecting zFS to forward them to the zFS owner.

In the message text:

Aggrname

The name of the aggregate.

Membername

The name of the member.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

If all members fail to reopen the aggregate, unmount and remount the aggregate.

IOEZ00590E **Aggregate *Aggrname* was successfully reopened. *Membername* is now eligible to become a zFS owner.**

Explanation

The aggregate successfully reopened locally. This member is now eligible to become the zFS owner.

In the message text:

Aggrname

The name of the aggregate.

Membername

The name of the member.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00591I

**zFS is encountering delays in XCF message transmission to systems:
Systemnames.**

Explanation

The zFS Hang Detector found that a thread has sent a message to another member of the sysplex, as indicated in the list, and is possibly hanging due to the message not arriving at the target system. This could be because XCF is stalled or delayed for some other reason, or due to some other system resource that is constrained.

In the message text:

Systemnames

The list of system names.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Monitor the potential hang. You can enter **f zfs,query,threads** to see the thread states. This information will appear in the system log, and should include which systems from which a reply is expected. The **f zfs,trace,print** command will gather trace information for the support team if your trace data set is configured. Check the other members of the sysplex specified in the list to see if there is an obvious reason for the seemingly long wait for the reply. In the case of actual XCF problems, XCF documentation may yield some other diagnostic techniques. If the problem persists, contact your service representative. You can also enter **f zfs,hangbreak**, but be prepared for additional extraneous dumps.

IOEZ00592I

**zFS is encountering delays with XCF replies from systems:
Systemnames.**

Explanation

The zFS Hang Detector found that one or more threads have sent a message to another member of the sysplex, as indicated in the list, and is experiencing delays in either replying to those messages or in receiving those replies on the local system. This could be because XCF is stalled or delayed for some other reason, or due to some other system resource that is constrained.

In the message text:

Systemnames

The list of system names.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Monitor the potential hang. You can enter **f zfs,query,threads** to see the thread states. This information will appear in the system log, and should include which systems from which a reply is expected. The **f zfs,trace,print** command will gather trace information for the support team if your trace data set is configured. Check the other members of the sysplex specified in the list to see if there is an obvious reason for the seemingly long wait for the reply. In the case of actual XCF problems, XCF documentation may yield some other diagnostic techniques. If the problem persists, contact your service representative. You can also enter **f zfs,hangbreak**, but be prepared for additional extraneous dumps.

IOEZ00598E

**ErrorCode reason ReasonCode received formatting aggregate
AggrName.**

Explanation

An aggregate could not be formatted due to an unexpected error.

In the message text:

ErrorCode

The error code.

ReasonCode

The reason code.

AggrName

The name of the aggregate.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Try to correct the problem and retry.

IOEZ00599E

ErrorCode during TSR for aggregate Name.

Explanation

An error occurred during token state recovery during aggregate takeover operation.

In the message text:

ErrorCode

The error code.

Name

The name of the aggregate.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Contact the service representative.

IOEZ00604I

Task asid=Asid tcb=TCB is delayed outside zFS while Action_object.

Explanation

The specified task running in zFS has called a system service to perform an operation. The operation is, for example, opening or closing the specified data set. This operation has not returned to zFS for at least 3 intervals of the hang detector.

In the message text:

Asid

The asid of the task.

TCB

The TCB address of the task.

Action_object

The action phrase and object of action. The `osi_ctl` interface calls for `dub`, `getmntstatus`, `quiesce`, `updatefileysys`, and `unquiesce`. For more information, see *z/OS UNIX System Services Planning*.

The code limits a maximum of 15 of these messages per hang detector cycle. There can be more tasks than messages listed.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response

Try to correct the problem by following documented trouble shooting procedures for the operation specified. If the *Action_object* is:

- Allocating dataset, see information about the following topics:
 - [Monitoring the space used by the control data set in z/OS DFSMSrmm Implementation and Customization Guide](#)
 - [Allocating system-managed data sets in z/OS DFSMS Using Data Sets.](#)
- Altering LDS, see [z/OS DFSMSdfp Storage Administration](#) or [z/OS DFSMS Access Method Services Commands.](#)
- Calling catalog search interface for *datasetname*, see [z/OS DFSMS Managing Catalogs.](#)
- Closing dataset, see the following topics in [z/OS DFSMS Using Data Sets:](#)
 - Using VERIFY to process improperly closed data sets
 - Recovering from errors due to an improperly closed VSAM data set
 - Checking for problems in catalogs and data sets.
- Defining LDS, see [z/OS DFSMSdfp Storage Administration](#) and [z/OS DFSMS Using Data Sets](#) for more information.
- Dequeuing, see [z/OS MVS Planning: Global Resource Serialization](#)
- Growing dataset, see [z/OS DFSMSdsm Diagnosis](#) or [z/OS DFSMSdsm Managing Your Own Data.](#)
- Locating dataset, see the topic about [Checking for problems in catalogs and data sets in z/OS DFSMS Using Data Sets.](#)
- Performing trace dataset close, see the topic about [processing a partitioned data set extended \(PDSE\) in z/OS DFSMS Using Data Sets.](#)
- Performing trace dataset unallocate, see the topic about [processing a partitioned data set extended \(PDSE\) in z/OS DFSMS Using Data Sets.](#)
- Opening dataset, see the topic about [Opening a data set in z/OS DFSMS Using Data Sets.](#)
- Recalling dataset, see [z/OS DFSMSdsm Storage Administration](#) and [z/OS DFSMSdsm Managing Your Own Data.](#)
- Remounting dataset, see the topic about problem diagnosis for a shared system in [z/OS MVS Diagnosis: Reference.](#)
- stimer wait, see the topic about understanding namespace validation and correction in [z/OS File System Administration.](#)
- Updating high used relative byte address (HURBA), see the topic about "Requesting DFSMSdss Double Check Data Set High Used RBA values for LDS data sets" in [z/OS DFSMSdss Storage Administration.](#)
- Waiting for I/O, see [z/OS DFSMS Using Data Sets.](#)

SMF record type 92 reports the activity of mounted file systems and files. For more information about [SMF record type 92](#) see [z/OS UNIX System Services Planning.](#)

IOEZ00605I

Task asid=Asid tcb=TCB appears to be delayed.

Explanation

The specified user task running in zFS has been running for at least three intervals of the hang detector. There can be many reasons for this behavior that are expected. For example, the task has a low dispatch priority that is preventing its progress, or the task is swapped out, or the system has a resource constraint such as an auxiliary storage shortage. It could also be doing a long running task, or looping. Another possibility is that zFS has called another system service (not covered in message IOEZ00604I) and it has not returned.

In the message text:

Asid

The asid of the task.

TCB

The TCB address of the task.

The code limits a maximum of 15 of these messages per hang detector cycle. There can be more tasks than messages listed.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Try to correct the problem using the troubleshooting procedures for the task identified. Also see the topic about [Understanding zFS hang detection in z/OS File System Administration](#).

IOEZ00606E

Error *ErrorCode* reason *ReasonCode* received while attempting to setauditfid for aggregate *AggrName*.

Explanation

An unexpected error was received while attempting to setauditfid for aggregate *AggrName*.

In the message text:

ErrorCode

The error code.

ReasonCode

The reason code.

AggrName

The name of the aggregate.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Try to resolve the error and reissue the command.

IOEZ00607I

Auditfid set for aggregate *AggrName*.

Explanation

The auditfid for aggregate *AggrName* was successfully set.

In the message text:

AggrName

The name of the aggregate.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00608I

Aggregate *AggrName* has new format auditfid. Specify *-force* or *-old* to override.

Explanation

Aggregate *AggrName* has a new format auditfid. A new format auditfid cannot be reset by default. Specify -force or -old.

In the message text:

AggrName

The name of the aggregate.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

Issue the command again with -force or -old.

IOEZ00609I

Parameter *parm* is too long.

Explanation

Parameter *parm* has too many characters in it.

In the message text:

parm

The name of the parameter.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

Use a shorter name for the parameter.

IOEZ00610I

zFS Name Space Validation could not obtain ENQ on *ResName*, waiting *Seconds* seconds.

Explanation

zFS is unable to perform name space validation because it cannot obtain a GRS ENQ on the specified resource name. zFS will retry the ENQ in *Seconds* seconds. Name space validation occurs either when zFS detects an internal error or there are XCF communication problems in the sysplex.

In the message text:

ResName

The resource name.

Seconds

The number of seconds.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Examine the state of the sysplex and take corrective action as appropriate. See the topic on [Performance and debugging in z/OS File System Administration](#).

IOEZ00611I

zFS Name Space Validation could not ping system *SysName*, waiting *Seconds* seconds.

Intlevel

The interface level of the other named member.

Sysname

The name of the other system.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response

Ensure that you have the correct release and service levels of zFS in your sysplex. To determine service levels, see the topic about [Determining service levels in z/OS File System Administration](#).

Also, see the topic about applying required APARs in [z/OS File System Administration](#).

IOEZ00615E

zFS encountered error Rcode reason=RsnCode obtaining GRS serialization for aggregate Aggregate.

Explanation

zFS could not obtain the proper GRS serialization to detach an aggregate that was no longer mounted in the sysplex. You might experience failures while attempting to mount file systems for the aggregate.

In the message text:

Rcode

The GRS return code.

RsnCode

The GRS reason code.

Aggregate

The aggregate name.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Determine the source of the GRS problem. Issue `zfsadm detach` to detach the aggregate from zFS.

IOEZ00616E

A timeout has occurred attempting to establish a connection with system Target_system.

Explanation

While attempting to establish a connection with the target system, a timeout has occurred. However, it is not known if the target system is truly down or not as it is still a member of the XCF group. There will be a maximum of six attempts at establishing the connection. If it is still unsuccessful, then this system will terminate.

In the message text:

Target_system

The target system.

System action

zFS will attempt to establish a connection six times, and terminate if the connection cannot be established within these attempts.

Severity:

svc_c_sev_error

Administrator Response

Determine the source of the XCF related problem, and then use XCF diagnostic techniques to correct it. If necessary, restart zFS.

IOEZ00617I

zFS is running sysplex *SysLevel* with interface level *IntLevel*.

Explanation

The message indicates which zFS sysplex functionality is enabled and the sysplex communications interface level. Beginning in z/OS V1R13, zFS uses interface level 4.

In the message text:

SysLevel

The sysplex functionality name.

IntLevel

The zFS XCF protocol interface level.

4

The z/OS V2R4 level (long-running command support)

4

The z/OS V2R3 level (long-running command support)

4

The z/OS V2R2 level (enhanced log and enhanced status APIs)

4

The z/OS V2R1 level (extended directory)

4

The z/OS V1R13 level (enhanced connect)

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00618E

***SY1* owns the long term enq for aggregate *Aggrname* or is the owner as defined by the first entry found. System *SY2* thinks *SY3* owns the aggregate.**

Explanation

While validating the zFS namespace, zFS found a cache entry for an aggregate that does not have the correct owner. Correction may cause zFS on some systems to be restarted.

In the message text:

SY1

The system owning the long term enq.

Aggrname

The aggregate name.

SY2

The system with the bad cache entry.

SY3

The system the bad cache entry indicates is the owner.

System action

zFS will attempt to correct the bad cache entry.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct the bad cache entry. Otherwise, restart zFS the system with the bad cache entry.

IOEZ00619E

Aggregate *Aggrname* is unowned. System *SY1* thinks *SY2* owns the aggregate.

Explanation

While validating the zFS namespace, zFS found a cache entry for an unowned aggregate that indicates the aggregate is owned. Correction may cause zFS some systems to be restarted.

In the message text:

Aggrname

The aggregate name.

SY1

The system with the bad cache entry.

SY2

The system with the bad cache entry indicates is the owner.

System action:

zFS will attempt to correct the bad cache entry.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct the bad cache entry. Otherwise, restart zFS on the system with the bad cache entry.

IOEZ00620E

SY1* is the owner of RW aggregate *Aggrname* and is not sysplex aware for RW. There is another cache entry for this aggregate on system *SY2

Explanation

RW aggregates that are owned by systems that are not sysplex aware for RW aggregates can only have one cache entry in the entire sysplex. Correction may cause zFS on some systems to be restarted.

In the message text:

Aggrname

The aggregate name.

SY1

The system owning the long term enq.

SY2

Another system with a cache entry.

System action:

zFS will attempt to correct the error.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, restart the client system.

IOEZ00621E

There is only one cache entry for aggregate *Aggrname* on system *System* but this entry indicates there are other systems connected.

Explanation

Connected systems must have cache entries for the aggregate, but there is only one entry for the aggregate in the sysplex. Correction may cause zFS on some systems to be restarted.

In the message text:

Aggrname

The aggregate name.

System

The system name.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00622E

There is only one cache entry for aggregate *Aggrname* on system *SY1* but this entry indicates that this system is connected to another system.

Explanation

Connect flags indicate another system owns the aggregate, but there is only one entry for the aggregate in the sysplex. Correction may cause zFS on some systems to be restarted.

In the message text:

Aggrname

The aggregate name.

SY1

The system name.

System action

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00623E

Aggregate *Aggrname* is unowned and growing on system *System*.

Explanation

A growing aggregate should always be owned. Correction may cause zFS on some systems to be restarted.

In the message text:

Aggrname

The aggregate name.

System

The system name.

System action

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00624E

Aggregate *Aggrname* is on system *SY1* with flags *Flag1* and also on system *SY2* with flags *Flag2*.

Explanation

The two specified systems have mismatching flags. Correction may cause zFS on some systems to be restarted.

In the message text:

Aggrname

The aggregate name.

SY1

The system 1 name.

Flag1

The system 1 flag name.

SY2

The system 2 name.

Flag2

The system 2 flag name.

System action

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00625E

Aggregate *Aggrname* is on system *System1* with *Field1 Currstate1* and also on system *System2* with *Field2 Curstate2*.

Explanation

This is an internal error. The two specified systems have mismatching flags. Correction may cause zFS on some systems to be restarted.

In the message text:

Aggrname

The aggregate name.

System1

The system1 name.

Field1

The field1 name.

Currstate1

The field1 value.

System2

The system2 name.

Field2

The field2 name.

Curstate2

The field2 value.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system. Report flag field information to IBM Service.

IOEZ00626E

Aggregate *Aggrname* is on system *System1* with *Field1val1*,*val2* and also on system *System2* with *Field2 val3*,*val4*.

Explanation

The two specified systems have mismatching flags. Correction may cause zFS on some systems to be restarted.

In the message text:

Aggrname

The aggregate name.

System1

The system1 name.

Field1

The field1 ID.

val1

The ID field1 value.

val2

The ID field1 value.

System2

The system2 name.

Field2

The field2 ID.

val3

The ID field2 value.

val4

The ID field2 value.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00627E

Aggregate *Aggrname* on system *System* is unowned but its cache entry indicates other systems are connected.

Explanation

An unowned aggregate should not have other systems connected to it. Correction may cause zFS on some systems to be restarted.

In the message text:

Aggrname

The aggregate name.

System

The system name.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00628E**Aggregate *Aggrname* is unowned, but system *System* has a cache entry indicating a connection to an owning system.****Explanation**

An unowned aggregate should not have connections. Correction may cause zFS on some systems to be restarted.

In the message text:

Aggrname

The aggregate name.

System

The system name.

System action

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00629E**The owner *SY1* of aggregate *Aggrname* thinks client *SY2* is *status* to the *fstype* file system but the connect flag on system *SY3* is *state*.****Explanation**

The connection status of an aggregate on the owner does not match its status on the client. Correction may cause zFS on some systems to be restarted.

In the message text:

SY1

The system1 name.

Aggrname

The aggregate name.

SY2

The client system name.

status

The connect status.

fstype

The file system type.

SY3

The client system name.

state

The connect flag state.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00630E

The owner SY1 of aggregate *Aggrname* thinks client SY2 is not connected, but the client has a cache entry.

Explanation

The aggregate is connected to the client. Clients that are not connected must not have cache entries. Correction may cause zFS on some systems to be restarted.

In the message text:

SY1

The owner system name.

Aggrname

The aggregate name.

SY2

The client system name.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00631E

The client SY1 of aggregate *Aggrname* thinks it is not connected, yet it has a cache entry.

Explanation

The aggregate is connected to the client. Clients that are not connected must not have cache entries. Correction may cause zFS on some systems to be restarted.

In the message text:

SY1

The owner system name.

Aggrname

The aggregate name.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00632E

The owner SY1 of aggregate *Aggrname* thinks client SY2 is not connected to the *fstype* filesystem, but the client thinks otherwise.

Explanation

The connection status of an aggregate on the owner system does not match its status on the client. Correction may cause zFS on some systems to be restarted.

In the message text:

SY1

The owner system name.

Aggrname

The aggregate name.

SY2

The client system name.

fstype

The file system type.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00633E

The client SY1 of aggregate Aggrname thinks it is not connected to the fstype filesystem, but the owner thinks otherwise.

Explanation

The connection status of an aggregate on the owner does not match its status on the client. Correction may cause zFS on some systems to be restarted.

In the message text:

SY1

The client system name.

Aggrname

The aggregate name.

fstype

The file system type.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00634E

The owner SY1 of aggregate Aggrname thinks system SY2 is connected but it does not have a cache entry.

Explanation

The owner connect mask indicates the client should have a cache entry but it does not. Correction may cause zFS on some systems to be restarted.

In the message text:

SY1

The owner system name.

Aggrname

The aggregate name.

SY2

The client name.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00635E

System *SY1* owns aggregate *Aggrname* but does not have a cache entry for it.

Explanation

The owner of an aggregate does not have a cache entry for it. Correction may cause zFS on some systems to be restarted.

In the message text:

SY1

The owner system name.

Aggrname

The aggregate name.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00636E

System *SY1* owns aggregate *Aggrname* but its cache entry says the aggregate is owned by *SY2*.

Explanation

The owner of an aggregate does not have a cache entry for it. Correction may cause zFS on some systems to be restarted.

In the message text:

SY1

The owner system name.

Aggrname

The aggregate name.

SY2

The other owner system name.

System action:

zFS will attempt to correct.

Severity:

svc_c_sev_error

Administrator Response:

None, if zFS can correct this error. Otherwise, remount the associated file system.

IOEZ00639I

progname: prodname featurenameVersion ver.rel.mod
Service Level slv.
Created on date.
syslevel

Explanation

This message is issued when the level of zFS is queried using the **query** command. The system returns the product name, feature name, version, release, modification level, service level, and creation date of the zFS program.

In the message text:

progrname

Program name.

prodname

Product name.

featurename

Feature name.

ver

Product version.

rel

Product release.

mod

Product modification level.

slv

Product service level.

date

Date and time the daemon was created.

syslevel

Sysplex functionality name/interface level. The zFS XCF protocol interface levels are:

4

The z/OS V2R4 level (long-running command support)

4

The z/OS V2R3 level (long-running command support)

4

The z/OS V2R2 level (enhanced log and enhanced status APIs)

4

The z/OS V2R1 level (extended directory)

4

The z/OS V1R13 level (enhanced connect)

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00640E

**Failed sending the *msgname* initialization message to system *sysname*.
Please restart.**

Explanation

zFS could not send a required initialization XCF message to the specified system. Initialization terminates. Restart zFS by responding R to console message BPXF032D.

In the message text:

msgname

The message name. This is an internal XCF message defined by zFS. This information can be used by IBM service.

sysname

The system name zFS attempted to send the internal XCF message to.

System action

The program ends. zFS file systems might be unmounted or moved in a sysplex.

Severity:

svc_c_sev_error

Administrator Response:

Examine the console log for system *sysname* to see if there are any outstanding operator responses required. Try to determine why system *sysname* is not able to receive XCF messages. After zFS is restarted, you might need to mount any zFS file systems that were unmounted.

IOEZ00641I

Cannot attach aggregate *Aggrname* in R/O mode due to incomplete clone.

Explanation

zFS cannot attach the specified aggregate in R/O mode because there is an incomplete clone from a prior mount of the aggregate.

In the message text:

Aggrname

Aggregate name.

System action:

Mount of the aggregate fails.

Severity:

svc_c_sev_notice

Administrator Response:

The aggregate needs to be mounted/attached in R/W mode to allow the incomplete clone to be deleted. The delete of the incomplete clone will automatically be attempted by zFS when the aggregate is mounted R/W.

IOEZ00642I

Mounting filesystem *filesystemname* is delayed, SMS is not active.

Explanation

The Storage Management Subsystem is not active. zFS will wait for up to one minute for SMS to become active, and then the mount will fail if SMS is still not active.

In the message text:

filesystemname

File system being mounted.

System action:

The mount fails if SMS is not active after one minute.

Severity:

svc_c_sev_warning

Administrator Response:

If SMS is not active, consult SMS diagnostics to determine the cause. This can be a temporary situation due to a long running SMS user exit. This situation may clear itself. If the mount fails, you will need to mount the file system after SMS becomes active to make it available.

IOEZ00643I

The value for configuration option *ConfigOption* is: *Progname: Prodname Featurename Version Version Service Level SLV Created on Date.*

Explanation

This message is issued when the level of zFS is queried using the CONFIGQUERY command. The system returns the product name, feature name, version, release, modification level, service level and creation date of the zFS program.

In the message text:

ConfigOption

Option name.

Programe

Program name.

Featurename

Feature name.

Prodname

Product name.

Version

Product *version.release.prodname.modification* level.

SLV

Product service level.

Date

Date and time the Daemon was created.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00644I

The value for configuration option *ConfigOption* is: *Programe: Prodname Featurename Version Version Service Level SLV Created on Date Syslevel.*

Explanation

This message is issued when the level of zFS is queried using the CONFIGQUERY command. The system returns the product name, feature name, version, release, modification level, service level and creation date of the zFS program.

In the message text:

ConfigOption

Option name.

Programe

Program name.

Prodnamd

Product name.

Featurename

Feature name.

Version

Product *version.release.prodname.modification* level.

SLV

Product service level.

Date

Date and time the Daemon was created.

Syslevel

Sysplex functionality name\interface level.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00645A**Error code initializing the zFS kernel control program.****Explanation**

The zFS kernel control program IOEFSCM encountered an unexpected error during initialization.

In the message text:

code

Error code for the initialization failure.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

None; the internal error would be reported by prior messages and dumps.

IOEZ00646I**zFS Kernel is restarting *numfileSYS* file systems.****Explanation**

zFS had an internal failure and is recovering from that failure. This message will remain on the operator's console until zFS has internally re-processed every file system that was mounted at the time of the failure.

In the message text:

numfileSYS

Number of mounted file systems.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

None; the internal error would be reported by prior messages and dumps.

IOEZ00650I**Successfully changed the attribute of aggregate *aggregate_name*.****Explanation**

The aggregate attribute was updated successfully.

aggregate_name

Name of the aggregate.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00651E**The -aggregate option must be specified.****Explanation**

The -aggregate option is a required option for the **zfsadm chaggr** command.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Retry the command specifying the -aggregate option.

IOEZ00652E *aggregate_name* is not mounted.**Explanation**

zFS attributes can only be changed for aggregates which are mounted.

In the message text:

aggregate_name

Name of the aggregate.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Ensure that the name of the aggregate is entered correctly, and that it is the name of a mounted HFS-compatibility mode aggregate. Try the command again.

IOEZ00653E The attribute for aggregate *aggregate_name* could not be updated. The operation fails with error code=*ErrorCode* and reason code=*ReasonCode*.**Explanation**

An error was encountered during the attempt to update the aggregate attribute.

In the message text:

aggregate_name

Name of the aggregate.

ErrorCode

The error code.

ReasonCode

The reason code.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response

If the error cannot be resolved, contact your service representative.

IOEZ00655E Syntax error in the argument of the -aggrgrow option - *argument*.**Explanation**

There is a syntax error in the value that is specified for the argument on the -aggrgrow option of the **zfsadm chaggr** command. The incorrect value is shown in the message.

In the message text:

argument

The argument in error.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Correct the argument and retry the command.

IOEZ00657E

Syntax error with aggregate -aggrfull parameter - parm_name.

Explanation

An aggregate attribute could not be updated because the -aggrfull option of the **zfsadm chaggr** command is improperly specified. See *z/OS File System Administration* for a description of the valid values for -aggrfull.

In the message text:

parm_name

The -aggrfull parameter in error.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the value and try the command again.

IOEZ00658E

Timeout exceeded for *Operation* operation. A reply was not received from system *System*.

Explanation

A reply was not received within the timeout period for an operation.

In the message text:

Operation

Name of the operation.

System

Name of the system.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Use the information in the message that refers to the system that is not responding and determine the status of that system. Check the console of the system not responding for outstanding messages and act accordingly.

IOEZ00659E

Timeout exceeded for the *Operation* operation on *Name*. A reply was not received from system *System* operation.

Explanation

A reply was not received within the timeout period for an operation.

In the message text:

Operation

Name of the operation.

Name

Name of the file system or aggregate.

System

Name of the system.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

Use the information in the message that refers to the system that is not responding and determine the status of that system. For problem determination, use *z/OS MVS Diagnosis: Reference*.

IOEZ00660I

There is Numtasks task(s) delayed outside zFS while Action_object.

Explanation

One or more tasks running in zFS have called a system service to perform an operation. The operation is, for example, enqueue waiting for the specified data set. However, this operation has not yet returned to zFS and the delay has caused the hang detector to suspect a problem.

In the message text:

Numtasks

Number of tasks.

Action_object

The action phrase and object of action. The `osi_ctl` interface calls for `dub`, `getmntstatus`, `quiesce`, `updatefileys`, and `unquiesce`. For more information, see *z/OS UNIX System Services Planning*.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response

Try to correct the problem using the troubleshooting procedures for the operation specified. If the *Action_object* is:

- *calling ISGQUERY*, see *z/OS MVS Planning: Global Resource Serialization*
- *calling an MVS sysplex service macro*, zFS has called a sysplex service macro, such as `IXCMSGI`, `IXCMSGO`, `IXCDELET`, `IXCLEAVE`, `IXCJOIN` or `IXCQUERY`. See *z/OS MVS Programming: Sysplex Services Reference*.
- *deleting ACEE, getting ACEE, or setting ACEE*, see *z/OS Security Server RACF Callable Services*.
- *enqueuing dataset*, see *z/OS MVS Planning: Global Resource Serialization*.
- *freeing storage or obtaining storage*, see *z/OS MVS Diagnosis: Tools and Service Aids*. For information about the `STORAGE` macro, see *z/OS MVS Programming: Assembler Services Reference IAR-XCT*.
- *performing security check*, see *z/OS Security Server RACF Diagnosis Guide* or the corresponding documentation, if you are using a different security product.
- *writing to the console*, see *z/OS MVS Diagnosis: Tools and Service Aids*. For information about the `WTO` macro, see *z/OS MVS Programming: Assembler Services Reference IAR-XCT*.

IOEZ00661I

zFS has a slow running XCF request on systems: Systemnames.

Explanation

The zFS hang detector identified that a thread sent a message to another member of the sysplex, as indicated in the list, and the thread has been running slowly for a time period that causes the hang detector to suspect a problem.

In the message text:

Systemnames

List of system names.

System action

This message is written to the console and then deleted (DOMed) when the target system responds.

Severity:

svc_c_sev_notice

Administrator Response:

Monitor the situation by issuing **f zfs,query,threads** to view thread states. This information appears in the system log and displays system status. If your trace data set is set up, issue **f zfs,trace,print** to gather trace information. Check the other members of the sysplex for an obvious reason for the wait. If the problem persists, contact your service representative. For information about setting up the trace data set, see the topic about [Performance and debugging in z/OS File System Administration](#).

IOEZ00662I

ZFS is low on storage.

Explanation:

zFS has determined that less than 60 MB of storage is remaining in the address space. While in this condition, storage requests related to the creation of new vnodes (file structures) and new mounts of file systems will fail.

System action:

The program continues. New mounts of zFS file system will fail.

Severity:

svc_c_sev_warning

Administrator Response

It is possible to see this message the first time you define zFS or as the result of changes to the IOEFSPRM cache size options. If this is the case, check your initial or new IOEFSPRM settings, lower the cache sizes, and then try restarting zFS. See the settings for [IOEFSPRM](#) in [z/OS File System Administration](#).

Issue **f zfs,query,storage** to get a storage report and determine what resources are using unnecessary storage. Take steps to limit the storage being used by that area. Consider restarting zFS to return to a more stable environment. Continue to monitor the situation. If the situation becomes unacceptable, take dumps of the z/OS UNIX and zFS address spaces and call IBM Service. For information about limiting storage and obtaining a dump, see the topic about [Performance and debugging in z/OS File System Administration](#).

IOEZ00663I

ZFS is critically low on storage.

Explanation:

zFS has determined that less than 20 MB of storage is remaining in the address space. While in this condition, all zFS storage requests related to the creation of new vnodes (file structures), or new mounts of file systems will fail.

System action:

The program continues. New mounts of zFS file system will fail.

Severity:

svc_c_sev_warning

Administrator Response

It is possible to see this message the first time you define zFS or as the result of changes to the IOEFSPRM cache size options. If this is the case, check your initial or new IOEFSPRM settings, lower the cache sizes, and then try restarting zFS. See the settings for [IOEFSPRM](#) in [z/OS File System Administration](#).

Issue **f zfs,query,storage** to get a storage report and determine what resources are using unnecessary storage. Take steps to limit the storage being used by that area. Consider restarting zFS to return to a more stable environment. Continue to monitor the situation. If the situation becomes unacceptable, take dumps of the

z/OS UNIX and zFS address spaces and call IBM Service. For information about limiting storage and obtaining a dump, see the topic on [Performance and debugging in z/OS File System Administration](#).

IOEZ00664E**Space monitoring initialization for *Name* has failed.****Explanation**

zFS either has an internal error or a lack of storage that was detected when attempting to initialize the necessary environment for space monitoring.

In the message text:

Name

Aggregate name or file system name.

System action

The program continues. The mounted file system's space usage will not be monitored.

Severity:

svc_c_sev_error

Administrator Response

If you see messages IOEZ00662I or IOEZ00663I before this message is issued, try lowering storage usage and remounting. For more information about lowering storage, see the topic about [Performance and debugging in z/OS File System Administration](#).

If you do not see messages IOEZ00662I or IOEZ00663I before this message being issued, contact IBM Service.

IOEZ00665E**Restarting local system *Sysname* for correction.****Explanation**

A local system is performing correction and has determined that it must restart itself. In the message text:

Sysname

Name of the local system performing validation.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

None.

IOEZ00666E**zFS kernel will be restarted automatically for a correction request from *Sysname*.****Explanation**

A remote system performing validation has requested that the local system restart to correct a problem.

In the message text:

Sysname

Name of the remote system performing validation.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

None.

IOEZ00667I **ZFS suppressing a dump for an error condition.**

Explanation:

zFS has encountered an error condition that normally causes a system dump. However, zFS has determined that it is already taking a dump on another task. Therefore, the dump for this error is being suppressed.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Ensure a zFS dump is produced automatically. If not, see the troubleshooting procedures in [z/OS File System Administration](#).

IOEZ00668I **ZFS Configuration option *configoption* is obsolete and is not used.**

Explanation

The specified configuration option is obsolete. It is not needed anymore and is ignored by zFS. Values can be set and queried, but they are not used by zFS processing.

In the messages text:

configoption

zFS configuration option that is obsolete.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

There is no need to specify or query this configuration option.

IOEZ00670I **Starting FSINFO command.**

Explanation:

The FSINFO command is now processing. There will be an IOEZ00849I message indicating that the display from this modify command is completed.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00671E **Bad file system name *filesystem_name* passed to FSINFO.**

Explanation:

zFS could not open the specified file system for FSINFO processing. It was not a valid file system name.

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

None.

IOEZ00674E**zFS failed to obtain critical ENQ on resource *ResName*. Rc and rsn are rc and rsn. zFS terminating.****Explanation**

zFS is unable to perform initialization because it cannot obtain a GRS ENQ on the specified resource name with qname SYSZIOEZ. To fix this problem you must determine the cause. For example, another zFS in the sysplex could be holding the ENQ or there could be XCF communication problems in the sysplex.

ResName

The resource name that could not be obtained.

rc

zFS return code.

rsn

zFS reason code.

System action:

The program ends.

Severity:

svc_c_sev_warning

Administrator Response:

Examine the state of the sysplex and take corrective action as appropriate.

IOEZ00675E**zFS will terminate... system *Sysname1* does not support the following feature(s) used by this system (*Sysname2*) *feature_list*.****Explanation**

The initializing system is using a feature that is not supported by the named system. zFS on the initializing system terminates. This message is issued on the initializing system.

Sysname1

The remote system that is already active, but does not support the features required by the system trying to initialize.

Sysname2

The local system that is trying to initialize.

feature_list

The list of features used by the initializing system (*Sysname2*), which are not supported by the remote system. If the feature name is *sysplex=filesystem*, see the topic about [Using zFS in a shared file system environment](#) in [z/OS File System Administration](#).

System action:

zFS initialization terminates.

Severity:

svc_c_sev_warning

Administrator Response:

Either apply service to *Sysname1* and retry, or remove the use of the indicated features from *Sysname2* and retry. For more information, see the topic on applying required APARs in [z/OS File System Administration](#).

IOEZ00676E**zFS on *Sysname1* should be terminated... it does not support the following feature(s) used by this system (*Sysname2*) *feature_list*.****Explanation**

The named system is initializing and does not support a feature used by this system. The zFS on the initializing system terminates. Otherwise, zFS on the initializing system should be terminated with the MODIFY OMVS,STOPPFS=ZFS operator command. This message is issued on the remote system.

Sysname1

The initializing system that does not have support.

Sysname2

The local system using features that are not supported by the initializing system.

feature_list

The list of features used by the local system (*Sysname2*), which are not supported by the remote (initializing) system. If the feature name is *sysplex=filesys*, see the topic on [Using zFS in a shared file system environment in z/OS File System Administration](#).

System action:

zFS initialization terminates.

Severity:

svc_c_sev_warning

Administrator Response:

If zFS on the initializing system does not terminate on its own, then stop zFS with the MODIFY OMVS,STOPPFS=ZFS operator command. Apply the necessary service to the initializing system (*Sysname1*) and retry. If you need to run *Sysname1* without the necessary service, do not use the feature in *feature_list* on *Sysname2*.

IOEZ00677E

zFS will terminate... system *Sysname1* uses feature(s) not supported by the initializing system (*Sysname2*).

Explanation

The named system (*Sysname1*) is using a feature that is not supported by the initializing system (*Sysname2*). The zFS on the initializing system terminates. This message is issued on the initializing system (*Sysname2*).

Sysname1

The remote system using feature that is not supported.

Sysname2

The local (initializing) system that does not have support for the feature that *Sysname1* is using.

System action:

zFS initialization terminates.

Severity:

svc_c_sev_warning

Administrator Response:

Inspect the *feature_list* field of message IOEZ00676E on the remote system to determine which support is missing. Apply service to the initializing system to provide the missing support and retry.

IOEZ00678E

Aggregate *Aggregate_name* has reached the maximum architected size.

Explanation

The specified aggregate has reached the maximum architected size and can no longer be grown. The maximum architected size for a version 1.4 aggregate is approximately 4TB. The maximum architected size for a version 1.5 aggregate is approximately 16 TB.

Aggregate_name

Is the name of the aggregate

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

If more space is needed for the aggregate, you should consider moving some of its files and directories to another file system. If the aggregate is version 1.4, you can also consider converting the aggregate to version

1.5. For more information about maximum aggregate sizes, see the section on minimum and maximum file system sizes in *z/OS File System Administration* .

IOEZ00700E

Aggregate *aggregate_name* is disabled for writing.

Explanation

The specified aggregate is disabled for writing. The aggregate must be unmounted before it can be salvaged. The aggregate is disabled because there were I/O errors to the aggregate or because the zFS kernel had an internal error that affected the aggregate structures on disk. It is important to successfully unmount the aggregate so that no corrupted structures exist in the zFS kernel for the aggregate and to allow log file recovery to run. Doing this ensures that the aggregate starts without errors on the next mount.

aggregate_name

The name of the aggregate

System action

The salvage operation terminates.

Severity:

svc_c_sev_error

Administrator Response:

Unmount the aggregate and then run **ioeagslv** utility against the aggregate.

IOEZ00701E

Could not read 8K page *block_number* from aggregate *aggregate_name*..

Explanation

An error occurred that prevented the salvage program from reading the specified block. This probably means that the aggregate cannot be repaired, or possibly that significant amounts of information will be lost in the aggregate.

block_number

block number

aggregate_name

The name of the aggregate

System action:

The salvage operation terminates.

Severity:

svc_c_sev_error

Administrator Response:

If the problem is due to an I/O error, zFS issues additional messages. Correct the I/O errors before proceeding.

IOEZ00702E

Errors encountered verifying AFL on aggregate *aggregate_name*.

Explanation

An error occurred while the salvage program was verifying the AFL (aggregate file system list) on the aggregate. The aggregate cannot be salvaged. This message is intended for IBM service personnel and is preceded by messages that indicate what errors occurred while verifying the AFL.

aggregate_name

The name of the aggregate

System action

The salvage operation terminates.

Severity:

svc_c_sev_error

Administrator Response:

Restore the aggregate from a backup copy.

IOEZ00703E

Corruption: *description*.

Explanation

The salvage program found that the aggregate is corrupted. The description provided in the message is intended for IBM service. Additional messages indicate the action taken by the salvage program; for example, whether the salvage program continues or not based on the severity of the error.

description

Text describing the corrupted data

System action:

The salvage operation continues.

Severity:

svc_c_sev_error

Administrator Response:

Examine subsequent messages provided by the salvage utility to determine whether action is required.

IOEZ00704E

Expected: *text*.

Explanation

The salvage program found that the aggregate is corrupted. A preceding message shows the corrupted values in a region of the aggregate. This message shows the expected values in the specified region of the aggregate. This message is intended for IBM service. Additional messages follow that indicate the action taken by the salvage utility.

In the message text:

text

Text describing the expected values

System action:

The salvage operation continues.

Severity:

svc_c_sev_error

Administrator Response:

Examine subsequent messages provided by the salvage utility to determine whether action is required.

IOEZ00705I

Formatted *aggregate_version* aggregate size *formatted_size* 8K blocks, data set size *VSAM_size* 8K blocks, *HFS_migration_status* migrated from HFS.

Explanation

This message displays the aggregate version, formatted size, in 8 K blocks, of the aggregate (the amount that the zFS format utility has formatted), the current initialized (used) size of the data set that contains the zFS aggregate, and the HFS migration state of the aggregate.

aggregate_version

The aggregate version number.

formatted_size

The formatted size.

HFS_migration_status

Was or was not migrated from HFS.

VSAM_size

The size of the VSAM data set,

System action:

The salvage operation continues.

Severity:

svc_c_sev_notice

IOEZ00707I

Log file size *number_blocks* 8K blocks, verified correct.

Explanation

The log file was found to be correct during an aggregate salvage operation.

number_blocks

The size of the log file in 8 KB blocks

System action:

The salvage operation continues.

Severity:

svc_c_sev_notice

IOEZ00708E

Log file on aggregate *aggregate_name* is corrupted.

Explanation

The salvage operation found that the log file on the aggregate is corrupted. The salvage operation cannot complete and the aggregate will need to be restored from a backup. This message is intended for IBM service personnel and is preceded by messages that indicate what errors occurred while verifying the log file.

In the message text:

aggregate name

The name of the aggregate

System action:

The salvage operation ends.

Severity:

svc_c_sev_error

Administrator Response:

Restore the aggregate from a backup copy.

IOEZ00709I

Bitmap size *number_blocks* 8K blocks, verified correct.

Explanation

An aggregate salvage operation found the bitmap to be correct.

In the message text:

number_blocks

The size of the bitmap in 8-KB blocks

System action:

The salvage operation continues.

Severity:

svc_c_sev_notice

IOEZ00710E

Bitmap on aggregate *aggregate_name* is corrupted.

Explanation

The block allocation bitmap on the aggregate is corrupted and the salvage operation cannot be completed. The aggregate must be restored from a backup. This message is intended for IBM service personnel and is preceded by messages that indicate what errors occurred while the salvage operation was verifying the bitmap structure.

aggregate_name

The name of the aggregate

System action:

The salvage operation ends.

Severity:

svc_c_sev_error

Administrator Response:

Restore the aggregate from a backup copy.

IOEZ00711I**Aggregate *aggregate_name* successfully operation_name. .**

Explanation

An aggregate was successfully verified or repaired by the **zfsadm salvage** command.

aggregate_name

The name of the aggregate.

operation_name

The operation that was performed.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00712E**Could not salvage aggregate *aggregate_name* because it could not be found.**

Explanation

The specified aggregate either does not exist, cannot be accessed, or is not a zFS aggregate.

aggregate_name

The name of the aggregate.

System action:

The program ends.

Severity:

svc_c_sev_notice

Administrator Response:

Provide the name of a zFS aggregate and try the program again.

IOEZ00713E**Error *ErrorCode* reason code *ReasonCode* received salvaging aggregate *aggregate_name*.**

Explanation

An aggregate could not be salvaged due to an unexpected error, or possibly the aggregate was busy with another command or operation.

aggregate_name

The name of the aggregate.

ErrorCode

The error code that was received.

ReasonCode

The reason code that was received.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

If there are no other commands or operations running against the aggregate, and the problem continues, contact your service representative.

IOEZ00715E

Open for aggregate *aggregate_name* failed with code=*ErrorCode* reason code=*ReasonCode*.

Explanation

An attempt to open the specified aggregate failed with the specified return code and reason code.

aggregate_name

The name of the aggregate.

ErrorCode

The error code that was received.

ReasonCode

The reason code that was received.

System action:

The program ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the problem based on the reason code. If the problem cannot be resolved, contact your service representative.

IOEZ00718I

ZFS is low on recovery tasks.

Explanation:

zFS has determined that 80%, or more, of the recovery tasks in the address space are actively performing recovery actions.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

A large number of zFS operations have been canceled, causing recovery actions to take place. Either these actions are not being done in a timely manner, or there is a system problem that will soon drastically affect the ability of zFS to properly perform its operations. You should begin looking for the cause of all these cancel actions.

IOEZ00719I

ZFS is critically low on recovery tasks.

Explanation:

zFS has determined that 95%, or more, of the recovery tasks in the address space are actively performing recovery actions. While in this condition, all zFS operations will be failed with return code EBUSY (114) and reason EF8D6A2A. This will continue until the situation is resolved.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

A large number of zFS operations have been canceled, causing recovery actions to take place. Either these actions are not being done in a timely manner, or there is a system problem that will soon drastically affect the ability of zFS to properly perform its operations. You should begin looking for the cause of all these cancel actions.

IOEZ00720I

Initializing system *SysName* will not be allowed to join the sysplex. It is not running sysplex=filesys.

Explanation

There is at least one member in the sysplex running z/OS R13 or higher. zFS requires all other members to be either at z/OS R13 or higher or to be running sysplex=filesys.

In the message text:

SysName

Initializing system that is not running sysplex=filesys.

System action:

The program continues.

Severity:

svc_c_sev_warning

Administrator Response:

zFS on the initializing system will terminate. To correct this problem, either remove all z/OS R13 or higher members from the sysplex or specify sysplex=filesys for the initializing system and retry the operation.

IOEZ00721I

Sysplex member *SysName* is not running sysplex=filesys. zFS on this initializing member will terminate.

Explanation

The initializing member is running z/OS R13 or later. It has found that the named member is not running sysplex=filesys. zFS does not allow a z/OS R13 or higher member to join a sysplex where there are members that are not running sysplex=filesys. All z/OS R13 or later members run sysplex=filesys. z/OS R12 members must specify sysplex=filesys.

In the message text:

SysName

Active system that is not running sysplex=filesys.

System action

zFS initialization terminates

Severity:

svc_c_sev_warning

Administrator Response:

zFS on the initializing z/OS R13 or later system will terminate. To correct this problem, either remove all z/OS R12 members that are not running sysplex=filesys or restart them with sysplex=filesys and retry the operation.

IOEZ00722I

Primary file system size size 8K blocks, verified correct.

Explanation

The primary file system was found to be correct during an aggregate salvage operation.

In the message text:

size

The size of the primary file system in 8-KB blocks

System action:

The salvage operation continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00723E

Primary file system on aggregate *aggregate_name* is corrupted.

Explanation

The primary file system is corrupted. See message IOEZ00734E or IOEZ00735I to determine if the aggregate has repairable (minor) or severe (major) corruptions. For repairable (minor) corruptions, run the salvage program without any options to repair the aggregate. For severe (major) corruptions, the salvage operation cannot be completed. The aggregate must be restored from a backup copy. This message is intended for IBM service personnel and is preceded by messages that indicate what errors occurred while the salvage operation was verifying the primary file system.

In the message text:

aggregate_name

The name of the aggregate

System action:

The salvage operation ends if the aggregate has severe (major) corruptions. The salvage operation continues if the aggregate has repairable (minor) corruptions.

Severity:

svc_c_sev_error

Administrator Response:

Restore the aggregate from a backup copy if the aggregate has severe (major) corruptions.

IOEZ00724I

Could not automatically re-enable disabled aggregate *AggrName*.

Explanation

An attempt was made to dynamically re-enable a disabled aggregate, but this failed. This could be due to the aggregate containing more than one file system, or necessary storage is not available to re-enable the file system, or the re-enablement failed for some reason.

In the message text:

AggrName

Name of the disabled aggregate that could not be remounted

System action:

The program continues.

Severity:

svc_c_sev_error

Administrator Response:

If message IOEZ00662I “IOEZ00662I” on page 109 or IOEZ00663I “IOEZ00663I” on page 109 is present, then refer to the Administrator Action section of the message for the required steps to take. If not, then the aggregate may have to be manually unmounted and mounted.

IOEZ00725I

Automatic re-enablement of file system *FileSys* complete.

Explanation

After the owning aggregate for the specified file system became disabled, the file system was successfully re-enabled.

In the message text:

FileSys

Name of the file system

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00726I

Waiting for recovery of *number* in-progress operations for filesystem *FilesystemName*.

Explanation

The zFS kernel program IOEFSKN encountered a terminating exception. The zFS kernel program will wait up to 5 minutes for *number* user file requests to recover before proceeding with kernel program termination. The controller program IOEFSCM will automatically restart the zFS kernel program after the user file requests have completed their recovery. If the user file operations recovery is not completed the controller program will terminate the kernel program and request that z/OS UNIX System Services restart the zFS PFS.

In the message text:

number

The number of in-progress operations

FilesystemName

The name of the file system

System action:

The program continues.

Severity:

svc_c_sev_notice

IOEZ00727I

Pre-processing *Numvnodes* vnodes for file system restart.

Explanation

zFS has restarted after a terminating exception, and is preprocessing the list of vnodes present at the time of zFS termination. A vnode is the internal structure that represents a file or directory in zFS. Because z/OS UNIX has direct references to these vnodes, zFS has to maintain them across an internal restart. zFS has to inspect each vnode; if z/OS UNIX is no longer referencing it, then it is discarded. If it is still in use by z/OS UNIX, then it is re-initialized and will be re-cached into the zFS vnode cache for later processing after its corresponding file system is internally remounted.

In the message text:

Numvnodes

Number of vnodes that were present at zFS termination.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None; the internal error would be reported by prior messages and dumps.

IOEZ00728I

Resuming user operations for file system *FileSys* Waking *NumTasks* waiting tasks Recached *Numvnodes* *vnodes* for this file system.

Explanation

zFS has restarted after a terminating exception, and has re-readied the named file system for operation; user operations are resumed for this file system.

In the message text:

FileSys

File system being resumed.

NumTasks

Number of tasks that were waiting to access the file system.

Numvnodes

Number of vnodes that had to be recached into the zFS vnode cache for this file system.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None; the internal error would be reported by prior messages and dumps.

IOEZ00729I

Verification of aggregate *aggregate_name* started.

Explanation

A salvage operation has started to verify the aggregate with the name *aggregate_name*.

In the message text:

aggregate_name

The name of the aggregate.

System action:

The salvage operation continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00730I

Verification of aggregate *aggregate_name* completed, no errors found.

Explanation

A salvage operation has finished verifying the aggregate with the name *aggregate_name* and found no errors.

In the message text:

aggregate_name

The name of the aggregate.

System action:

The salvage operation ends.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00731I

zFS internal restart complete.

Explanation:

zFS has restarted after a terminating exception, and has re-readied all mounted file systems for operation, all user operations are resumed and zFS is fully operational.

System action:

The program (IOEFSCM) continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00733I

Verification of aggregate *aggregate_name* completed and the aggregate is in error.

Explanation

A salvage operation has finished verifying the aggregate with the name *aggregate_name*. It found some errors with the aggregate. The errors can be repaired.

In the message text:

aggregate_name

The name of the aggregate

System action:

The salvage operation ends.

Severity:

svc_c_sev_notice

Administrator Response:

This message should have been preceded by other messages identifying the errors that were found. Run the salvager program with default options to repair the aggregate.

IOEZ00734E

Verification of aggregate *aggregate-name* stopped with return code *ReturnCode* due to major error(s).

Explanation

The salvager program encountered one of the following errors during verification and could not continue. The return code is *ReturnCode*. If the return code is EIO(122), the salvager program could not read or write the DASD. If the return code is ENOMEM(132), the salvager program ran out of storage. If the return code is EMVSERR(157), the salvager program had an internal error. A return code of 12 indicates the salvager program found an unrepairable error in the disk structures.

In the message text:

aggregate-name

The name of the aggregate

ReturnCode

The catalog service return code.

System action:

The salvage operation terminates.

Severity:**Administrator Response:**

Use the return code to determine why salvager failed. If the return code is ENOMEM(132), then try to increase MEMLIMIT of the job and rerun salvager. If the return code is EMVSERR(157), then contact IBM service personnel. If the return code is 12, then restore the aggregate from a backup copy.

IOEZ00735I

Salvage found *number* minor errors in aggregate *aggregate_name*.

Explanation

A salvage operation found *number* repairable errors on the aggregate named *aggregate_name*.

In the message text:

number

The number of errors found

aggregate_name

The name of the aggregate

System action:

The salvage operation ends.

Severity:

svc_c_sev_notice

Administrator Response:

Run the salvager program with default options to repair the aggregate.

IOEZ00736I

zFS kernel initiated at *StartTime* Current status: *Status* Internal restart count *RestartCount* *RestartTime*.

Explanation

This message is a response to the MODIFY ZFS,QUERY,STATUS command. It shows the time (in GMT) when the zFS address space was started, the current status of the zFS address space, how many times zFS has internally restarted due to a severe internal error or due to the MODIFY ZFS,ABORT command, the time (in GMT) when it was last restarted if RestartCount is greater than zero.

In the message text:

StartTime

GMT date/time when the zFS address space was created

Status

Current status of zFS: initializing, shutting down, aborting, active, or internal remount

RestartCount

Number of times zFS has internally restarted

RestartTime

GMT date and time of the last zFS internal restart, if the internal restart count is greater than zero.

System action

The program (IOEFSCM) continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00739I

Salvage processed *d_pages* directory pages, *anodes* anodes, *i_blocks* indirect blocks and *a_pages* anode table pages.

Explanation

The salvage operation displays the numbers of directory pages, anodes, indirect blocks and anode table pages it found.

In the message text:

d_pages

The number of directory pages found

anodes

The number of anodes found

i_blocks

The number of indirect blocks found

a_pages

The number of anode table pages found

System action

Salvage operation continues.

Severity

svc_c_sev_notice

Administrator Response

None

IOEZ00740E

Internal remount of file system *FileSys* failed.

Explanation

zFS has restarted and an attempt to internally remount the named file system has failed.

In the message text:

FileSys

Name of the file system.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Remount the file system without switching modes. If the problem persists, restart ZFS.

IOEZ00741I

zFS is currently running at sysplex=filesys. You have specified sysplex=on. You should change your zFS configuration options file specification to sysplex=filesys and also specify sysplex_filesys_sharemode=rwshare.

Explanation

zFS in z/OS V1R13 or later always runs sysplex=filesys, independently of your sysplex= specification in your IOEFSPRM. In addition, since you have specified sysplex=on and you have not specified sysplex_filesys_sharemode, zFS is running with sysplex_filesys_sharemode=rwshare in order to be similar to sysplex=on (all zFS read-write file systems are mounted sysplex-aware by default).

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Update the zFS configuration options file, as indicated in the message text.

IOEZ00742I

zFS is currently running at sysplex=filesys. You have specified sysplex=off. You should change your zFS configuration options file specification to sysplex=filesys.

Explanation

zFS is running sysplex=filesys. Specify sysplex=filesys so that your IOEFSPRM is not misleading. In addition, since you specified sysplex=off and you did not specify sysplex_filesys_sharemode, you should verify that the default sysplex_filesys_sharemode=norwshare is what you want.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Verify the settings in the zFS configuration options file, as indicated in the message text.

IOEZ00743I

zFS is currently running at sysplex=filesys. You have not specified sysplex=filesys. You should change your zFS configuration options file specification to sysplex=filesys.

Explanation

zFS in z/OS V1R13 or later always runs sysplex=filesys, independently of your sysplex= specification in your IOEFSPRM. In addition, you have specified sysplex_filesys_sharemode, so zFS is running with that option.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Change the settings in the zFS configuration options file, as indicated in the message text.

IOEZ00744E

Time limit exceeded for recovery of in-progress operations for filesystem *FileSys*.

Explanation

zFS has taken a terminating exception, and the zFS kernel program IOEFSKN has waited 5 minutes for in-progress user file operations to recover before proceeding with IOEFSKN termination. Since recovery was not performed within the 5 minute window, IOEFSKN termination will proceed but zFS will stop and be restarted by z/OS UNIX instead of internally restarting.

In the message text:

FileSys

Name of the file system.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEZ00745E Automatic re-enablement of file system *FileSys* failed, rc=*ReturnCode* rsn=*ReasonCode*.

Explanation

The aggregate containing the specified file system has become disabled. zFS attempted to internally remount the file system with samemode. This internal remount failed with the specified values. zFS will attempt this remount several times. If it continues to fail, then message IOEZ00746E will be issued.

In the message text:

FileSys

Name of the file system.

ReturnCode

Return code of the remount request.

ReasonCode

Reason code of the remount request.

System action

The salvage operation terminates.

Severity

The program continues.

Administrator Response

None.

IOEZ00746E Automatic re-enablement of file system *FileSys* halted after repeated failures.

Explanation

zFS has repeatedly attempted to internally remount the disabled aggregate with samemode or move the aggregate to another sysplex member, and each attempt has failed. zFS will no longer attempt to remount or move it.

In the message text:

FileSys

Name of the file system.

System action

The salvage operation terminates.

Severity

The program continues.

Administrator Response

You should unmount the file system, and then run `ioeagslv` against this aggregate, as it could be corrupted. Then, mount the file system again.

IOEZ00747I

Automatically re-enabling file system *FileSys*.

Explanation

zFS is attempting to internally remount the disabled aggregate with `samemode`.

In the message text:

FileSys

Name of the file system.

System action

The program continues.

Severity

`svc_c_sev_notice`

Administrator Response

The aggregate is temporarily disabled due to an internal zFS error. File requests will fail while the aggregate is disabled. zFS will attempt to re-enable the aggregate automatically. When the aggregate is re-enabled, the file can be closed and reopened and the request can be attempted again. If zFS cannot re-enable the aggregate automatically, you will need to unmount/mount or remount the aggregate before the file request can be attempted again.

IOEZ00750E

Support for multi-file system aggregates has been removed; attach or mount of *aggrname* is denied.

Explanation

Multi-file system aggregates are no longer supported.

In the message text:

aggrname

The name of the aggregate.

System action

The salvage operation terminates.

Severity

The program continues.

Administrator Response

Specify a compatibility mode aggregate and retry the operation.

IOEZ00751I *mountparm is no longer a supported mount parm. It is ignored.*

Explanation

The specified mount parameter is no longer supported.

In the message text:

mountparm

The mount parameter that is no longer supported.

System action

The mount parameter is ignored.

Severity

svc_c_sev_notice

Administrator Response

Either ignore this message or remove the mount parameter specified.

IOEZ00752E *Verification of aggregate terminated because error limit **max_errors** exceeded.*

Explanation

A salvage operation encountered more errors than the salvage parameter MAX_ERRORS allows, and cannot continue.

In the message text:

max_errors

The value of the MAX_ERRORS salvage parameter

System action

The salvage operation ends.

Severity

svc_c_sev_error

Administrator Response

Restore the aggregate from a backup or increase the value of the MAX_ERRORS parameter in the IOEFSPRM file.

IOEZ00753I *Salvage is repairing anode table pages.*

Explanation

A salvage operation found corrupted anode table pages and is repairing them.

System action

The salvage repair operation continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00754I **Salvage is repairing partially free list.****Explanation**

A salvage operation found that the anode table partially free list is corrupted, and is repairing it.

System action

The salvage repair operation continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00755I **Salvage is repairing the ZLC list.****Explanation**

A salvage operation found that the zero link count list (ZLC) is corrupted and is repairing it.

System action

The salvage repair operation continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00756I **Salvage is repairing file, directory, and ACL objects.****Explanation**

A salvage operation found errors with one or more objects in the file system and is repairing those objects.

System action

The salvage repair operation continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00757I

Salvage is repairing bitmap pages.

Explanation

A salvage operation found errors in the contents of the bitmap, and is repairing the pages of the bitmap found to be in error.

System action

The salvage repair operation continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00758I

Salvage repaired *anode* anode table pages, *p_free* partially free pages, *zlc* zlc pages, *indirect* indirect blocks.

Explanation

A salvage operation repaired the numbers of anode table pages, partially free pages, zlc pages and indirect blocks indicated.

In the message text:

anode

The number of anode table pages repaired

p_free

The number of partially free pages repaired

zlc

The number of zlc pages repaired

indirect

The number of indirect blocks repaired

System action

The salvage operation continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00759I

Salvage found *number* corruptions of security attributes.

Explanation

A salvage operation found damaged security objects stored on disk; for example, ACLs and stored SAF security packets. After repair, some users' access to some file system objects could change: a user might have access to an object that was originally denied, or might not have access to an object that was originally allowed.

In the message text:

number

The number of security objects that were damaged

System action

The salvage operation continues.

Severity

svc_c_sev_notice

Administrator Response

Based on the file system being repaired and the level of security required for that file system, decide whether to use the repaired file system.

IOEZ00760I **No IOEZPRM DD specified. Parmlib search being used.**

Explanation

The JCL used to run the salvager program did not include a IOEZPRM DD statement. Therefore, the parmlib concatenation is being searched for the IOEPRMxx members that contain the zFS configuration options for your system. The configuration options can include options for the salvager program.

System action

The salvage operation continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00761E **Specified PARM too long, length = *length*. .**

Explanation

The PARM string is too long. The length of the specified string is given in the message. The maximum length is 1024 characters.

In the message text:

length

The length of the string.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00762E

Error in PARM specification *string*.

Explanation

There is an error in the PARM, as specified in the message. In the message text:

string

The PARM string.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00763E

Suffix at position *position* too long.

Explanation

The specified suffix starting in the specified column position is too long.

In the message text:

position

The position of the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00764E

Comma or right paren expected at position *position*.

Explanation

Either a comma or a right parenthesis should have been in the specified column position, but is not.

In the message text:

position

The position of the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00765E

Suffix at position *position* not two alphanumeric chars.

Explanation

The specified suffix should be two characters long, but is not. The suffix specification should be in the specified column position.

In the message text:

position

The position of the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00766E

No suffixes found at position *position*.

Explanation

No valid parmlib suffix specification was found at the specified position.

In the message text:

position

The position of the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00767E

No closing paren found at position *position*.

Explanation

A closing parenthesis was not found where one was expected, in the specified column position.

In the message text:

position

The position of the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00768E

No open paren found at position *position*.

Explanation

Parmlib suffix specifications require parentheses around them. There is no opening parenthesis found. It is expected in the specified column position.

In the message text:

position

The position of the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00769E

No equals sign found at position *position*.

Explanation

Parmlib suffix specifications require an equals sign. It is expected in the specified column position.

In the message text:

position

The position of the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00770E

Extra characters were found at position *position*.

Explanation

Extra characters are not allowed. They start in the specified column.

In the message text:

position

The position of the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00771E

PRM not found at position *position*.

Explanation

No PRM was found for parmlib suffix specifications. It is expected in the specified column.

In the message text:

position

The position of the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00773E

Failed to initialize storage, ending.

Explanation

Failed to set up for storage management. The program terminates.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Check the region size specified in the JCL. Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00774E

**Open for aggregate *aggregate_name* failed with code=*return_code*.
Aggregate may be attached.**

Explanation

An attempt to open the specified aggregate failed with the specified return code. The problem might be that the aggregate is already mounted or attached.

In the message text:

aggregate_name

The name of the aggregate

return_code

The return code

System action

The salvage operation ends.

Severity

svc_c_sev_error

Administrator Response

Use the **zfsadm lsaggr** command to see if the aggregate is attached. If it is, use the UNMOUNT command to unmount the file system, and resubmit the job. If the problem persists, or if the aggregate is not attached, contact your service representative.

IOEZ00775E

The required SYSPRINT DD card has a problem code=*return_code*.

Explanation

Either the SYSPRINT DD statement is missing from the JCL used to run the salvager program, or the salvager program has found a problem with the SYSPRINT DD statement.

In the message text:

return_code

The return code

System action

The salvage operation ends.

Severity

svc_c_sev_error

Administrator Response

Correct the JCL and resubmit the job. If the error persists, or you cannot find an error in the SYSPRINT DD statement, contact your service representative.

IOEZ00776I

Salvage is repairing the totally free page stack.

Explanation

A salvage operation is in the process of repairing the totally free page stack.

System action

The salvage repair operation continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00777A

**Restarting exception *a_code* occurred, reason *r_code* abend psw
<PSW_1 PSW_2> <PSW_3 PSW_4 >.**

Explanation

A zFS program encountered an exception running in AMODE64. A dump is issued and the internal trace table is printed. If the zFS kernel abends, it stops and restarts. File systems remain mounted, but files that are currently open might have I/O errors. If severe exceptions are encountered during the restart, zFS will be terminated and the system will display a BPXF032D message that must be replied to before zFS can be reinitialized. See [z/OS MVS System Codes](#) for more information about abend codes.

In the message text:

a_code

The z/OS abend code received.

r_code

The z/OS reason code received

PSW_1

The high half of the first doubleword of the abend PSW.

PSW_2

The low half of the first doubleword of the abend PSW.

PSW_3

The high half of the second doubleword of the abend PSW.

PSW_4

The low half of the second doubleword of the abend PSW.

System action

The program continues.

Severity

svc_c_sev_fatal

Administrator Response

This message is followed by additional messages giving more information about the problem. Contact your service representative.

IOEZ00778I

General Registers Rreg_num: <r1 r2> <r3 r4> <r5 r6> <r7 r8>.

Explanation

A zFS program running in AMODE64 encountered an exception. This message shows the 64-bit registers at time of error. The message displays the contents of four registers, beginning with the register indicated by *reg_num*. The message is repeated, showing a different set of registers each time, until all 64-bit registers have been displayed.

In the message text:

reg_num

The number of the first register whose contents are displayed

r1

The high half of the 64-bit register *reg_num*

r2

The low half of the 64-bit register *reg_num*

r3

The high half of the 64-bit register *reg_num + 1*

r4

The low half of the 64-bit register *reg_num + 1*

r5

The high half of the 64-bit register *reg_num + 2*

r6

The low half of the 64-bit register *reg_num + 2*

r7

The high half of the 64-bit register *reg_num + 3*

r8

The low half of the 64-bit register *reg_num + 3*

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

This message is followed by additional messages giving more information about the problem.

IOEZ00780E

Aggregate *aggregate_name* contains zero or more than one file system and cannot be salvaged.

Explanation

The specified aggregate has either zero file systems or more than one file system. The salvager does not support multi-file system aggregates or HFS-compatibility mode aggregates with a clone (.bak file).

In the message text:

aggregate_name

The name of the aggregate

System action

The salvage operation ends.

Severity

svc_c_sev_error

Administrator Response

If the aggregate has a .bak file, remove it and restart the salvager. If the aggregate is a multi-file system aggregate, you need to run a salvager program from a release prior to z/OS V2R1.

IOEZ00781I **Salvage repaired *directory* directory entries and *bitmap* bitmap pages.**

Explanation

This message summarizes the number of directory entries and bitmap pages repaired by a salvage operation.

In the message text:

directory

The number of directory entries

bitmap

The number of bitmap pages

System action

The salvage operation ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00782I **Salvage has verified *verified_num* of *total_num* object in the *file_system_object_name*.**

Explanation

During a salvage operation, this message shows the progress of the operation by indicating how many items in the described file system object have been verified.

In the message text:

verified_num

The number of objects processed.

total_num

The number of objects in the file system structure.

object

A description of the object

file_system_object_name

A description of the file system structure that is being verified.

System action

The salvage operation continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00783E Aggregate *aggregate_name* is damaged.

Explanation

During a salvage operation, the specified aggregate was found to be damaged. A successful repair has not been completed.

In the message text:

aggregate_name

The name of the aggregate

System action

The salvage operation continues.

Severity

svc_c_sev_error

Administrator Response

Try running the salvage operation again. If subsequent repair attempts are not successful, restore the aggregate from a backup copy.

IOEZ00784E Non-terminating exception *AbendCode* occurred, reason *ReasonCode* abend psw *PSW1H PSW1L PSW2H PSW2L*.

Explanation

A zFS kernel sub-routine encountered an exception while running AMODE64. A dump is issued and the internal trace table is printed. This exception is non-terminating. The zFS kernel continues to run, though errors might occur for a file or file system.

In the message text:

AbendCode

The z/OS abend code received.

ReasonCode

The z/OS reason code received

PSW1H

The high half of the first doubleword of the abend PSW.

PSW1L

The low half of the first doubleword of the abend PSW.

PSW2H

The high half of the second doubleword of the abend PSW.

PSW2L

The low half of the second doubleword of the abend PSW.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

This message is followed by additional messages with more information about the problem. Contact your service representative.

IOEZ00785I **Log file contents corrupted, repairing log contents and continuing with salvage.**

Explanation

The salvage program found that the content of the aggregate log file is wrong. Salvage resets the log file and continues its processing.

System action

The salvage operation continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEZ00786I **Aggregate *aggregate_name* was not unmounted cleanly. Last update time stamp=*time_stamp* sysname=*system_name***

Explanation

At the beginning of the salvager run, the aggregate was found to have not been unmounted cleanly after last use. The time stamp indicates the last periodic update time. The system name is where the last update occurred.

In the message text:

aggregate_name

The name of the aggregate that was not unmounted cleanly.

time_stamp

The time stamp indicating the approximate time that zFS was canceled or the system went down.

system_name

The name of the system where the last update occurred.

System action

The salvage operation continues.

Severity

svc_c_sev_notice

IOEZ00787I **Repair of aggregate *aggregate_name* completed. All minor errors have been repaired.**

Explanation

During the salvage run, the aggregate was found to be damaged and a repair of all minor errors has been completed. This message does not indicate whether the repair was successful.

In the message text:

aggregate_name

The name of the aggregate that was repaired

System action

The salvage operation ends.

Severity

svc_c_sev_notice

IOEZ00788E

Open for aggregate *aggregate_name* failed with code=*return_code*. The aggregate was not found.

Explanation

An attempt to open the specified aggregate failed with the specified return code. The aggregate could not be found.

In the message text:

aggregate_name

The name of the aggregate.

return_code

The return code.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Ensure that the aggregate exists and resubmit the job.

IOEZ00789E

Open for aggregate *aggregate_name* failed with code=*return_code*. The aggregate is busy and may be mounted or attached.

Explanation

An attempt to open the specified aggregate failed with the specified return code.

In the message text:

aggregate_name

The name of the aggregate.

return_code

The return code.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Check to see if the aggregate is attached via the zfsadm lsaggr command. Correct the problem and resubmit the job. If the problem persists, or there is no error, contact your service representative.

IOEZ00790I

Aggregate *aggrname* is already at version 5.

Explanation

A request has been made to convert an aggregate to version 5 and the aggregate is already version 5.

In the message text:

aggrname

The name of the aggregate.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00791I

Successfully converted directory *name* to version 5 format.

Explanation

The directory was successfully converted to version 5.

In the message text:

name

The name of the directory.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00792E

**Failed to prepend the current working directory, error=*errorCode*
reason=*reasonCode*.**

Explanation

Either BPX1GCW failed to return the current working directory or the length of the full directory names exceeds 1024.

errorCode

The error code.

reasonCode

The reason code.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and retry the command. If the problem persists, contact your service representative.

IOEZ00793E **Error=*ReturnCode* reason=*ReasonCode* received while attempting to convert directory *name* to version 5 format.**

Explanation

The directory failed to convert to version 5 format.

In the message text:

ReturnCode

The error code.

ReasonCode

The reason code.

name

The directory name.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00794E **Failed to get information for directory *name*, error=*returnCode* reason=*reasonCode*.**

Explanation

Failed to get information for the specified object.

In the message text:

name

The directory name.

returnCode

The error code.

reasonCode

The reason code.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00795E

Open for aggregate *aggregate_name* failed with code=*return_code*.

Explanation

An attempt to open the specified aggregate failed with the specified return code. The problem may be storage shortage or internal errors.

In the message text:

aggregate_name

The name of the aggregate.

return_code

The return code.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

If the return code indicates a storage shortage, then increase storage and re-submit the job. Message IOEZ00823 may also have been previously issued. If the problem persists or there are internal errors, contact your service representative.

IOEZ00797I

Skip page *logical_page* (physical page *physical_page*) of v5 directory (index=*index_number*).

Explanation

The indicated v5 directory page was too corrupted to continue. The salvager program will skip processing the rest of the entries on this page and move on to the next directory page.

In the message text:

logical_page

The logical page number of the directory page.

physical_page

The physical page number of the directory page.

index_number

The index number of the directory.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00798I

Found more than *number_entries* entries in directory (index=*index_number*) and skipping duplicate name checking for any additional entries.

Explanation

Salvager has found more than specified number of valid entries in a directory indicated by the index number. To avoid any potential storage shortage, the salvager program will suspend duplicate name checking for any additional entries found in the same directory.

In the message text:

number_entries

The maximum number of entries allowed in duplicate name checking.

index_number

The index number of the directory.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00799A

zFS stand-alone utility ran out of storage above bar, total of <*high_megabytes*,*low_megabytes*>M bytes used, size attempted was <*high_storage*,*low_storage*>, MEMLIMIT was <*high_memlimit*,*low_memlimit*>, class *class_number* type *storage_type*.

Explanation

zFS stand-alone utility ran out of storage above the 2G bar when attempting to obtain *high_storage*,*low_storage* bytes. *high_megabytes*, *low_megabytes* is the number of bytes that has been obtained and assigned by the utility above the bar already. *high_memlimit*,*low_memlimit* shows the system defined MEMLIMIT value that the stand-alone utility uses. *class_number* and *storage_type* is information for IBM service personnel.

In the message text:

high_megabytes

The high-half of the total number of megabytes used by the zFS utility

low_megabytes

The low-half of total number of megabytes used by zFS utility.

high_storage

The high-half of amount of storage that zFS utility attempted to obtain.

low_storage

The low-half of amount of storage that zFS utility attempted to obtain.

high_memlimit

The high-half of the MEMLIMIT value used by zFS utility.

low_memlimit

The low-half of the MEMLIMIT value used by zFS utility.

class_number

The zFS utility sub-component class number.

storage_type

The zFS utility storage type.

System action

The program ends.

Severity

svc_c_sev_fatal

Administrator Response

Try restarting the stand-alone utility with a bigger MEMLIMIT value. For more information about setting MEMLIMIT and how the system determines what value to use, see [z/OS MVS Programming: Extended Addressability Guide](#). If problem continues, contact your service representative.

IOEZ00800I

Conversion has processed *number* of total objects in the anode table.

Explanation

During the conversion of a zFS aggregate, the stand-alone conversion program has processed the indicated number of objects in the file system. The conversion process has to examine each object, and if its a directory that needs to be re-formatted, then it needs to convert it to the new version format.

In the message text:

number

The number of objects processed.

total

The number of objects in the file system structure.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00801I

Directory conversion begun for inodenum*ber*, directory size is *total* pages.

Explanation

During the conversion of a zFS aggregate, the stand-alone conversion program found that a directory with the indicated inode number is in the wrong format and needs to be converted. The original size of the directory is shown in pages to provide an indicator of the amount of pages that need to be read while doing the conversion.

In the message text:

number

The inode number.

total

The size of the directory in 8K pages.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00804E

**Failed to get file system information for *aggregate_name*,
error=*error_code* reason=*reason_code*.**

Explanation

An error occurred while trying to get information for the specified aggregate. See [Return codes \(errno\) in z/OS UNIX System Services Messages and Codes](#) for a description of the error code. See [Appendix A, “Reason codes,” on page 387](#) for a description of the reason code.

System action

- If **zfsadm fsinfo** is used, the program ends.
- If MODIFY FSINFO is used, the program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00805A

Aggregate size *size* 4K pages is too large to convert to version 4.

Explanation

During the conversion of a version 5 zFS aggregate to a version 4 zFS aggregate, the stand-alone conversion program has found the aggregate size is too large. A version 4 aggregate cannot be larger than 4TB in size.

In the message text:

size

The size of the aggregate dataset in 4K pages.

System action

The program ends.

Severity

svc_c_sev_fatal

Administrator Response

Create a new version 4 aggregate and copy the data from the version 5 aggregate manually, in sections.

IOEZ00806A

Directory size *sizeK* bytes, sub-directory count *SubDirs* cannot be converted.

Explanation

During the conversion of a version 5 zFS aggregate to a version 4 zFS aggregate, the stand-alone conversion program has found that a version 5 directory has more than 65535 sub-directories or is larger than 4GB.

In the message text:

size

The size of the directory in K bytes.

SubDirs

The number of sub-directories in the directory.

System action

The program ends.

Severity

svc_c_sev_fatal

Administrator Response

Create a new version aggregate and copy the data from the version 5 aggregate manually, in sections.

IOEZ00807I

In a wait to verify that aggregate *aggregate_name* has no other writers. Member *member_name* in sysplex *sysplex_name* last wrote to the aggregate on *time*.

Explanation

When an aggregate is cleanly unmounted, zFS can quickly determine that there are no other members writing to the aggregate. This aggregate was not cleanly unmounted. Another possible reason is that it is a copy that was made without first unmounting the aggregate, and now the copy is being mounted. zFS needs to wait 65 seconds to verify that there are no other members writing to the aggregate.

In the message text:

aggregate_name

The name of the aggregate.

member_name

The member name.

sysplex_name

The sysplex name. This field might not be provided.

time

The time of the last recorded write to the aggregate.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Wait for zFS to finish the mount operation. See [z/OS File System Administration](#) for information about unmounting zFS file systems before copying or moving an aggregate.

IOEZ00808I

Successfully converted all directories in aggregate *aggrname* to version *version*.

Explanation

All directories in the aggregate were successfully converted to the specified version.

In the message text:

aggrname

The aggregate name.

version

The version.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00809I Error *error_code* reason *reason_code* received while attempting to convert all directories in aggregate *aggrname* to version *version*.

Explanation

An unexpected error was received while converting the directories of the aggregate to the specified version.

In the message text:

error_code

The error code that was received.

reason_code

The reason code that was received.

aggrname

The aggregate name.

version

The version.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

Try to resolve the error and re-issue the command.

IOEZ00810I Successfully changed aggregate *aggrname* to version *version*.

Explanation

The aggregate version was successfully changed.

In the message text:

aggrname

The aggregate name.

version

The version.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00811E Error *return_code* reason *reason_code* received while attempting to change aggregate *aggrname* to version *version*.

Explanation

An error was encountered changing the aggregate version.

In the message text:

return_code

The return code.

reason_code

The reason code.

aggrname

The aggregate name.

version

The version.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00812I Successfully changed aggregate *aggrname* to version **1.version**.

Explanation

The aggregate was changed to version 1.5 successfully.

In the message text:

aggrname

The aggregate name.

version

The version.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00813I

Error *error_code* reason *reason_code* received while attempting to change aggregate *aggrname* to version *1.version*.

Explanation

An unexpected error was received while changing the aggregate to the specified version.

In the message text:

error_code

The error code that was received.

reason_code

The reason code that was received.

aggrname

The aggregate name.

version

The version.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

Try to resolve the error and reissue the command.

IOEZ00814E

Must specify either *-path* or *-aggrversion*.

Explanation

A **zfsadm convert** command specified neither *-path* nor *-aggrversion*. Either *-path* or *-aggrversion* must be specified.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Retry the command specifying valid options.

IOEZ00815E

Enqueue *queue_name*, held by *system_name*, could not be obtained for shutdown processing. zFS will terminate abnormally.

Explanation

The specified enqueue is needed for shutdown processing and is not available. It is held by the named system. zFS will terminate abnormally.

In the message text:

queue_name

The enqueue name.

system_name

The name of the system holding the enqueue.

System action

zFS will terminate abnormally.

Severity

svc_c_sev_error

Administrator Response

Try to determine why the enqueue is being held by the named system and take appropriate actions to get it released. For problem determination, see [z/OS File System Administration](#). If the problem persists, contact your service representative.

IOEZ00822E **Logsize too large with the number of physical disk blocks available.**

Explanation

The logsize specified is too large relative to the size of the VSAM linear dataset.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Specify a smaller logsize and issue the command again.

IOEZ00823E **Dynamic allocation error occurred for dataset *DatasetName*. rc=*Retcode* err=*Reterr* info=*Retinfo* SMSreason=*Retrsn* func=*func***

Explanation

A dynamic allocation error occurred while processing the specified dataset. *Retcode*, *Reterr*, *Retinfo* and *Retrsn* are the error codes supplied by dynamic allocation. *Function_code* describes the dynamic allocation function attempted.

In the message text:

DatasetName

The dataset name.

Retcode

The return code.

Reterr

The return error.

Retinfo

The return info.

Retrsn

The return reason.

func

The function code.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Use the dynamic error codes to determine the reason for the failure. Correct the error and retry the operation.

IOEZ00824E **Aggregate too small. Increase the size of the VSAM linear dataset.**

Explanation

The size of the VSAM linear dataset is too small.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Increase the size of the VSAM linear dataset and issue the command again.

IOEZ00825E **Aggregate contains file system. Specify the -overwrite option to format.**

Explanation

The VSAM linear data set already contains a zFS aggregate. Specify the -overwrite option to format the new aggregate.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

If the existing file system is indeed supposed to be reformatted, then specify the -overwrite option and reissue the command.

FileSys

Name of the file system.

IOEZ00826A

zFS stand-alone utility out of storage, total of *num*M bytes used, size attempted was *amount_storage*, class *class_number* type *storage_type*.

Explanation

The zFS stand-alone utility ran out of storage when attempting to obtain *amount_storage* bytes. *num* is the number of bytes that has been obtained by the zFS utility. *class_number* and *storage_type* is information for IBM service personnel.

In the message text:

num

The total number of megabytes used by zFS.

amount_storage

The amount of storage that zFS attempted to obtain.

class_number

The zFS kernel subcomponent class number.

storage_type

The kernel storage type.

System action

The program ends.

Severity

svc_c_sev_fatal

Administrator Response

Try restarting the stand-alone utility with a bigger MEMLIMIT value. For more information about setting MEMLIMIT and how the system determines what value to use, see [z/OS MVS Programming: Extended Addressability Guide](#). If the problem continues, contact your service representative.

IOEZ00827I

zfsadm query *name* completed successfully. There is no information to display.

Explanation

The indicated **zfsadm query** command completed successfully. There was no data to display.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00828E

ProgName: MODIFY command - Parm rejected: RC= EBUSY.

Explanation

All zFS modify command threads are busy processing a long-running modify command, or zFS is being shut down.

In the message text:

ProgName

The program name.

Parm

The program parameters on the MODIFY command that were passed to zFS.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

If zFS is shutting down, then reissue the command after it is restarted. Otherwise, reissue the command after one of the other modify commands is completed. You can also try adding another modify command thread with the **zfsadm config** command.

IOEZ00829E

ProgName: Modify command failed: Parm failed: rc = return_code.

Explanation

An error occurred while attempting a console command.

In the message text:

Parm

The program parameters on the MODIFY command that were passed to zFS.

ProgName

The program name.

return_code

The return code.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Check the return code (rc) and respond accordingly.

IOEZ00830E

File system *FileSystem* has been quiesced for at least *seconds* by *Operation* operation. It was quiesced by *asid* on *SystemName* at *time* (GMT). It is zFS owned by *OwningSystem*. There may be other quiesced file systems.

Explanation

The named file system is quiesced and there is at least one task waiting to access it. Access is allowed when the file system is unquiesced. There might be other quiesced file systems.

In the message text:

FileSystem

The name of the file system.

seconds

The minimum number of seconds that a file system must be quiesced before it can appear in this message.

Operation

The name of the operation that is causing the quiesce.

asid

Either the ASID and job that is causing the quiesce or an indication that zFS is causing the quiesce.

SystemName

The name of the system that is causing the quiesce.

time

The time of the quiesce.

OwningSystem

The name of the owning system.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

To determine all the file systems that are quiesced, use either the z/OS UNIX **zfsadm aggrinfo -long**, the F ZFS,QUERY,FILE, QUIESCED or the D OMVS,F operator commands. To unquiesce the file systems, use ISPF SHELL (ISHELL) to Reset unmount or quiesce from the Work with Mounted File Systems panel. 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 that you use was defined with an OMVS HOME directory, and the user ID is not already active. If the condition persists, contact your service representative.

IOEZ00831E

stat() failed for pathname *name*, rc = *error_code*.

Explanation

An error occurred while attempting to get status information of the specified path name.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Check the error code and respond accordingly.

IOEZ00832E

Aggregate name *aggregate_name* mounted on pathname *path_name* is not a zFS aggregate.

Explanation

The aggregate is not a valid zFS aggregate.

In the message text:

aggregate_name

The name of the aggregate.

path_name

The path name of the aggregate.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Specify a zFS aggregate name.

IOEZ00833E

Failed to get information on pathname *path_name*. error=*error_code* reason=*reason_code*.

Explanation

BPX1GMN failed to return file system information.

In the message text:

error_code

The error code that was received.

path_name

The path name of the aggregate.

reason_code

The reason code that was received.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00834E

Mount for file system *Filesystem* failed because the dataset does not refer to the same dataset as the owner *Owner*. *LocalSystem* has the file system on VOLSER *LocalVolser* whereas the owner has it on *OwnerVolser*.

Explanation

The named file system does not refer to the same dataset as on the owning system. The local mount fails and z/OS UNIX will function ship operations to the z/OS UNIX owner.

In the message text:

Filesystem

The name of the file system.

Owner

The name of the system that owns the file system.

LocalSystem

The name of the local system.

LocalVolser

The local VOLSER.

OwnerVolser

The owner VOLSER.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

If z/OS UNIX function shipping is not desired, ensure that the file system refers to the same dataset. Then unmount and remount.

IOEZ00835E

Mount for file system *Filesystem* failed because the dataset does not refer to the same dataset as the owner *Owner* . The file system is on *VOLSER Volser* but *LocalSystem* has it at *CCHH LocalCCHH* whereas the owner has it at *OwnerCCHHr*.

Explanation

The named file system does not refer to the same dataset as on the owning system. The local mount fails and z/OS UNIX will function ship operations to the z/OS UNIX owner.

In the message text:

Filesystem

The name of the file system.

Owner

The name of the system that owns the file system.

Volser

The VOLSER.

LocalSystem

The name of the local system.

LocalCCHH

The local CCHH.

OwnerCCHHr

The owner CCHH.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

If z/OS UNIX function shipping is not desired, ensure that the file system refers to the same dataset. Then unmount and remount.

IOEZ00836I *program_name: MODIFY command - command_name accepted.*

Explanation

The MODIFY command *command_name* has been accepted.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00837E *Invalid FSINFO sorting method *sorting_method*.*

Explanation

The specified sorting method is invalid. Supported sorting methods are NAME, REQUESTS and RESPONSE.

System action

- If **zfsadm fsinfo** is used, the program ends.
- If MODIFY FSINFO is used, the program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the sorting method and try again.

IOEZ00838E *Bad wildcard character after aggregate option *aggregate_name*.*

Explanation

FSINFO only supports wildcard with * at the beginning or the ending of the aggregate name.

In the message text:

aggregate_name

The aggregate name with wildcard

System action

If **zfsadm fsinfo** is used, the program ends.
If **MODIFY FSINFO** is used, the program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the aggregate name and try again.

IOEZ00839E Invalid selection criteria after **-select** option.

Explanation

FSINFO encountered an invalid selection criteria.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the selection criteria and try again.

IOEZ00840E **FSINFO -system** option is not allowed with **-basic**, **-full**, **-owner** or **-reset** option.

Explanation

The **FSINFO -system** option is not allowed if the **-basic**, **-full**, **-owner**, or **-reset** options are specified.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00841E **FSINFO -select** or **-exceptions** option is not allowed with **-path** or **-reset** option.

Explanation

FSINFO -select or **-exceptions** option is not allowed if either **-path** or **-reset** option is specified.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00842E

FSINFO -sort option is not allowed with -reset option.

Explanation

FSINFO -sort option is not allowed if the -reset option is specified.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00843E

**Failed to get file system information error=*error_code*
reason=*reason_code*.**

Explanation

Getting file system information has failed due to the displayed return code and reason code.

In the message text:

error_code

The error code that was received.

reason_code

The reason code that was received.

System action

If **zfsadm fsinfo** is used, the program ends.

If MODIFY FSINFO is used, the program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00844E

Invalid option *option_name*.

Explanation

An invalid option was specified for the FSINFO command.

Explanation

Indicates that the information following the message is the status of the zFS file system and the statistics for each file system displayed. There will be an IOEZ00849I message indicating that the display from this modify command is completed.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00851I Processing zlc for *file_system*.

Explanation

The specified file system is being attached. There are files in it that were marked as deleted while the file system was last being used. Those files had not yet been removed from disk. These files are now being removed from the disk. This is normal zero link count (zlc) processing. Removing a large number of zlc files or a large zlc file may take a significant amount of time to complete. During this time the file system may be unavailable for use.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00852E Data set is not a VSAM linear data set.

Explanation

The data set is not defined as a VSAM linear data set.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Ensure that the data set is correctly defined as a VSAM linear data set.

IOEZ00853I There are no free 8K blocks remaining in aggregate *aggrname*. Applications may fail.

Explanation

Applications may be failing because there are no free 8K blocks in the aggregate. The aggregate must be grown or applications may continue to fail.

In the message text:

aggrname

The aggregate name.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Use the **zfsadm grow** command to grow the aggregate.

IOEZ00854I **Salvage for *aggrname* successfully canceled.**

Explanation

An online salvage for the aggregate was successfully canceled.

In the message text:

aggrname

The aggregate name.

System action:

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00856E **FSINFO: select or exceptions option is not allowed if no wildcard is specified in aggregate name.**

Explanation

If a wildcard is not specified in the aggregate name string, you cannot use the **select** or **exceptions** options.

System action

If **zfsadm fsinfo** is used, the program ends.

If **MODIFY FSINFO** is used, the program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00857I

No zFS aggregate is found matching the requested criteria.

Explanation

There were no zFS aggregates found that have the attributes or aggregate names specified with the command keywords.

System action

- If **zfsadm** is used, the program ends.
- If **MODIFY** is used, the program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00858E

Invalid SMF interval string '*string*'.

Explanation

The parsed string was not valid. It did not have any of the required options.

In the message text:

string

The interval string. It must consist of one of the following options:

- ON
- ON,xx where xx is a number between 1 and 60
- OFF

System action:

The system continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEZ00859I

FSINFO: reset has completed.

Explanation

Indicates that reset processing is done. This message does not guarantee that the specified data set exists or is a valid zFS aggregate.

System action

- If **zfsadm fsinfo** is used, the program ends.
- If **MODIFY FSINFO** is used, the program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00860E **The attributes and mount parms for aggregate *aggrname* may not match.**

Explanation

Mismatches occurred because errors were encountered while aggregate attributes or mount parms were being updated.

In the message text:

aggrname

The aggregate name.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Issue a samemode remount to restore the aggregate attributes from the mount parms and clear this message.

IOEZ00861E **A request to *action_needed* attribute for aggregate *aggrname* failed because system *downlevel_system* is at release *downlevel_release* and needs to be at release *minimum_required_release* or above.**

Explanation

The request failed because there is a downlevel system in the sysplex.

In the message text:

action_needed

Action to take with the attribute

aggrname

The aggregate name.

downlevel_system

The downlevel system name.

downlevel_release

The release of the downlevel system.

minimum_required_release

The minimum release that is required.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Try the operation again after removing all downlevel systems in the sysplex.

IOEZ00862E Syntax error with aggregate -rwshare parameter - *parm_name*.

Explanation

An aggregate attribute could not be updated because the -rwshare option of the **zfsadm chaggr** command is improperly specified. See *z/OS File System Administration* for a description of the valid values for -rwshare.

parm_name

The -rwshare parameter in error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the value and try the command again.

IOEZ00866E Aggregate *aggrname* was disabled *aggr_disabled* times and re-enabled *aggr_reenabled* times. zFS will try to re-enable the aggregate one more time after salvaging it.

Explanation

zFS has re-enabled the aggregate a number of times by either moving the zFS owner or by remounting. But the aggregate continues to be disabled. This might indicate that a salvage is needed. zFS will initiate a salvage operation and then try one last time to re-enable the aggregate.

In the message text:

aggrname

The aggregate name.

aggr_disabled

The number of times the aggregate was disabled.

aggr_reenabled

The number of times the aggregate was re-enabled.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

If the aggregate does become disabled again and message IOEZ00746E is displayed, unmount the aggregate and contact your service representative.

IOEZ00867I

Salvage for aggregate *aggrname* was interrupted.

Explanation

Salvage for the aggregate was interrupted by a **zfsadm salvage -cancel** command or by an unmount.

In the message text:

aggrname

The aggregate name.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00870A

**The local initializing system cannot coexist with system *system_name*.
The local system terminates.**

Explanation

The release span between the two system is not supported. Initialization ends.

In the message text:

system_name

The name of the system.

System action:

The program ends.

Severity

svc_c_sev_fatal

Administrator Response

Ensure that you have the correct release and service levels of zFS in your sysplex.

IOEZ00872E

**Error shrinking aggregate *aggrname*, error code=*error_code* reason
code=*reason_code*.**

Explanation

The shrink of the aggregate failed due to an unexpected error, or possibly the aggregate ran out of free space or was busy with another command or operation.

In the message text:

aggrname

The aggregate name.

error_code

The error code.

reason_code

The reason code.

System action:

The program ends.

Severity

svc_c_sev_error

Administrator Response

Use message IOEZ00904E along with the return and reason codes to determine the reason for the failure, and try the command again if the shrink is still needed. If there are no other commands or operations running against the aggregate, and the problem continues, contact your service representative.

IOEZ00873I **Aggregate *aggrname* successfully shrunk.**

Explanation

An aggregate was successfully reduced in size by the **zfsadm shrink** command.

In the message text:

aggrname

The aggregate name.

System action:

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00877I **Aggregate *aggregate_name* is successfully decrypted.**

Explanation

The aggregate was successfully decrypted by the **zfsadm** command.

aggregate_name

The name of the aggregate.

System action:

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00879E **Error encrypting aggregate *aggregate_name*, error code=*ErrorCode* reason code=*ReasonCode*.**

Explanation

The encryption of the aggregate failed due to an unexpected error, or possibly the aggregate was busy with another command or operation.

aggregate_name

The name of the aggregate.

ErrorCode

The error code that was received.

ReasonCode

The reason code that was received.

System action:

The program ends.

Severity

svc_c_sev_error

Administrator Response

Use the return and reason codes to determine the reason for the failure and try the command again. If there are no other commands or operations running against the aggregate and the problem continues, contact your service representative.

IOEZ00880E

**Error decrypting aggregate *aggregate_name*, error code=*ErrorCode*
reason code=*ReasonCode*.**

Explanation

The decryption of the aggregate failed due to an unexpected error, or possibly the aggregate was busy with another command or operation.

aggregate_name

The name of the aggregate.

ErrorCode

The error code that was received.

ReasonCode

The reason code that was received.

System action:

The program ends.

Severity

svc_c_sev_error

Administrator Response

Use the return and reason codes to determine the reason for the failure and try the command again. If there are no other commands or operations running against the aggregate and the problem continues, contact your service representative.

IOEZ00881I

***aggregate_name* is being shrunk.**

Explanation

zFS is in the process of shrinking the specified aggregate, which can take a long time. File and directory access is allowed throughout most of the shrink process. If a shutdown occurs or if the aggregate is unmounted, the shrink process is canceled. You can also use the **zfsadm shrink -cancel** command to cancel the shrink process.

aggregate_name

The name of the aggregate.

System action:

The program continues.

Severity

svc_c_sev_continue

Administrator Response

Allow the shrink process to continue. To cancel it, use the **zfsadm shrink** command. See [z/OS File System Administration](#) for more details about shrink processing and how to cancel it.

IOEZ00882E

The request cannot be satisfied because the zFS kernel is not active.

Explanation

The **zfsadm** command fails because the zFS kernel is not active.

System action:

The program ends.

Severity

svc_c_sev_error

Administrator Response

Activate the zFS kernel and try the command again.

IOEZ00883E

The request cannot be satisfied because the IOEFSPRM value for *parameter_name* could not be retrieved from the zFS kernel.

Explanation

The value for the specified parameter could not be retrieved. The command ends.

parameter_name

The IOEFSPRM name.

System action:

The program ends.

Severity

svc_c_sev_error

Administrator Response

Determine why the value cannot be retrieved and try the command again.

IOEZ00884E

***program_name*: could not open trace output file *file_name*.**

Explanation

The in-memory trace table could not be printed because the output trace dataset could not be opened.

In the message text:

program_name

The name of the zFS program.

file_name

The name of the trace output file.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Ensure that the **trace_dsn** parameter specifies a valid file name that can be opened for output.

IOEZ00885I**Shrink request for aggregate *aggregate_name* successfully canceled.****Explanation**

The shrinking of the specified aggregate was successfully canceled.

In the message text:

aggregate_name

The name of the aggregate.

System action:

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00886E**The user is not authorized to run this command.****Explanation**

Only the user who mounted the file system or those who have either a UID of 0 or READ access to the SUPERUSER.FILESYS.PFSCCTL profile in the UNIXPRIV class can issue this command.

System action:

The program ends.

Severity

svc_c_sev_error

Administrator Response

None.

IOEZ00887E**Aggregate *aggregate_name* is not found.****Explanation**

The specified aggregate name is not found. It is either not a valid aggregate name or the name is incorrect.

In the message text:

aggregate_name

The name of the aggregate.

System action:

The program ends.

Severity

svc_c_sev_error

Administrator Response

Specify the correct aggregate name and issue the command again.

IOEZ00888I**aggregate_name is being encrypted or decrypted.****Explanation**

zFS is in the process of encrypting or decrypting the specified aggregate, which can take a long time. File and directory access are allowed throughout most of the encrypt or decrypt process. If a shutdown occurs or if the aggregate is unmounted, the process is canceled. You can also use the **zfsadm encrypt -cancel** or **zfs decrypt -cancel** command to cancel the process.

In the message text:

aggregate_name

The name of the aggregate.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Allow the encryption or decryption process to continue. To cancel it, use the **zfsadm encrypt** or **zfsadm decrypt** command accordingly. See [z/OS File System Administration](#) for more details about encrypt or decrypt processing and how to cancel it.

IOEZ00889E**Message ID %1\$d not found.****Explanation**

zFS attempted to issue a message and the message could not be found.

messageID

The ID of the message zFS attempted to issue.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response:

Contact your service representative.

IOEZ00890E**The local system failed with rc *return_code* and reason *reason_code* while retrieving the automove option for aggregate *aggregate_name*. The local system will not become the zFS owner of the aggregate.**

Explanation

The automove option for the aggregate could not be retrieved. Without this information, the local system cannot determine whether it can become the zFS owner of the aggregate.

In the message text:

return_code

The return code.

reason_code

The reason code that was received.

aggregate_name

The name of the aggregate.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEZ00891E

The local system failed with *return_code* and reason *reason_code* while retrieving the automove option for aggregate *aggregate_name*. The local system will not attempt to move ownership of the aggregate.

Explanation

The automove option for the aggregate could not be retrieved. Without this information, the local system cannot determine whether any remote system is a suitable owner. The aggregate will not be moved.

In the message text:

return_code

The return code.

reason_code

The reason code that was received.

aggregate_name

The name of the aggregate.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEZ00892I

Aggregate *aggregate_name* encrypt or decrypt successfully canceled.

Explanation

The encrypting or decrypting of the specified aggregate was successfully canceled.

In the message text:

aggregate_name

The name of the aggregate.

System action:

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00895E

Option -encrypt or -compress is only allowed if -version5 is specified.

Explanation

Format with encryption or compression only applies to version 1.5 aggregates.

System action:

The program ends.

Severity

svc_c_sev_error

Administrator Response

Specify the -version5 option in order to format with encryption or compression.

IOEZ00896I

Aggregate *aggregate_name* released *tracks* tracks, moved *blocks* blocks, and moved *fragments* fragments.

Explanation

The specified number of tracks was successfully released from the specified zFS aggregate. The shrink processing moved the specified number of 8K blocks and 1K fragments.

In the message text:

aggregate_name

The name of the aggregate.

tracks

The number of tracks released.

blocks

The number of 8K blocks moved.

fragments

The number of 1K fragments moved.

System action:

The program continues.

Severity

svc_c_sev_notice.

Administrator Response

No action is required.

IOEZ00897E Error code *errorCode* reason *reasonCode* received while releasing space from aggregate *aggregate_name*. *blocks* blocks and *fragments* fragments moved.

Explanation

During a shrink operation, there was a failure releasing space from the specified aggregate data set. The error and reason codes are from the PARTREL service. The amount of space zFS will use in the aggregate is as specified by the shrink command options. However, the space in the unused portion of the data set is not released. Also shown is the number of 8K blocks and 1K fragments that were moved during the shrink processing.

In the message text:

errorCode

The PARTREL error code received.

reasonCode

The PARTREL or catalog diagnosis reason.

aggregate_name

The name of the aggregate.

blocks

The number of 8K blocks moved.

fragments

The number of 1K fragments moved.

System action:

The program continues.

Severity

svc_c_sev_error.

Administrator Response

The return and reason codes are described in [z/OS DFSMSdfp Diagnosis](#). The return code and diagnostic reason code specified is from the PARTREL service. Additional information for the PARTREL service can be found in [z/OS DFSMSdfp Advanced Services](#). Use this to determine the cause of the failure, and try another shrink operation. If the problem persists, contact your service representative.

IOEZ00898I *aggregate_name* is being compressed or decompressed.

Explanation

zFS is in the process of compressing or decompressing the specified aggregate, which can take a long time. File and directory access are allowed throughout most of the compression or decompression process. If a shutdown occurs or if the aggregate is unmounted, the process is canceled. You can also use the **zfsadm compress -cancel** or **zfs decompress -cancel** command to cancel the process.

In the message text:

aggregate_name

The name of the aggregate.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Allow the compression or decompression process to end. To cancel it, use the **zfsadm encrypt** or **zfsadm decrypt** command accordingly. See [z/OS File System Administration](#) for more details about compression and decompression processing and how to cancel it.

IOEZ00899I Aggregate *aggregate_name* is successfully compressed.

Explanation

An aggregate was successfully compressed by the **zfsadm** command.

In the message text:

aggregate_name

The name of the aggregate.

System action:

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00900I Aggregate *aggregate_name* is successfully decompressed.

Explanation

An aggregate was successfully decompressed by the **zfsadm** command.

In the message text:

aggregate_name

The name of the aggregate.

System action:

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00901E Error compressing aggregate *aggregate_name*, error code=*error_code* reason code=*reason_code*.

Explanation

The compression of the aggregate failed due to an unexpected error, or possibly the aggregate was busy with another command or operation.

In the message text:

aggregate_name

The name of the aggregate.

error_code

The error code that was received.

reason_code

The reason code that was received.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Use the return and reason codes to determine the reason for the failure and try the command again. If there are no other commands or operations running against the aggregate and the problem continues, contact your service representative.

IOEZ00902E

Error decompressing aggregate *aggregate_name*, error code=*error_code* reason code=*reason_code*.

Explanation

The decompression of the aggregate failed due to an unexpected error, or possibly the aggregate was busy with another command or operation.

In the message text:

aggregate_name

The name of the aggregate.

error_code

The error code that was received.

reason_code

The reason code that was received.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Use the return and reason codes to determine the reason for the failure and try the command again. If there are no other commands or operations running against the aggregate and the problem continues, contact your service representative.

IOEZ00903I

Aggregate *aggregate_name* compress or decompress successfully canceled.

Explanation

The compressing or decompressing of the specified aggregate was successfully canceled.

In the message text:

aggregate_name

The name of the aggregate.

System action:

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00904E

**Aggregate *aggregate_name* shrink halted with error code=*error_code*.
Moved *blocks* blocks and *fragments* fragments.**

Explanation

The shrinking of the aggregate failed due to an unexpected error. The size of the aggregate has not been reduced. If the error code is 119 (EFBIG) or 133 (ENOSPC), there was insufficient free space to shrink the aggregate to the requested size. If active increase was allowed, the new size of the aggregate was increased back to its original size. The aggregate may not be a good candidate to be shrunk. If active increase was not allowed, file system activity used all the free blocks before the shrink process was completed. If the error code is 120 (EINTR), the shrink was interrupted by a shutdown, unmount force, or a shrink cancel request. The specified number of 8K blocks and 1K fragments were moved before shrink processing ended.

In the message text:

aggregate_name

The name of the aggregate.

error_code

The error code.

blocks

The number of 8K blocks moved.

fragments

The number of 1K fragments moved.

System action:

The program ends.

Severity

svc_c_sev_error.

Administrator Response

If the error code is 119 (EFBIG) or 133 (ENOSPC) and active increase was not allowed, try the **shrink** command with a larger new size. If active increase was allowed and you still want to shrink the aggregate, remove unwanted files and directories from the aggregate and try the **shrink** command again. For other error codes, try to determine the reason for the failure and reissue the **shrink** command. If the problem persists, contact your service representative.

IOEZ00905E

File system *file_name* failed to mount or open due to unsupported structures on disk.

Explanation

An attempt was made to mount or use a file system that includes features or disk structures that are not supported at this release.

In the message text:

file_name

The name of the file.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Mount the file system only on a release that supports the file system structures.

IOEZ00906E

File system *file_name* connect rejected from system *system_name* due to unsupported structures on disk.

Explanation

An attempt was made to mount or use a file system that includes features or disk structures that are not supported at this release level. z/OS UNIX will function-ship operations for this file system to the z/OS UNIX owner.

In the message text:

file_name

The name of the aggregate.

system_name

The system name of the connecting system.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

If the release level on this system should support the file system features and disk structures, contact IBM service.

IOEZ00907E

The local system cannot coexist with system *system_name* at release level *release_level*. *system_name* will terminate.

Explanation

The release span between the two system is not supported. The initializing system ends.

In the message text:

system_name

The name of the system.

release_level

The release level that cannot coexist with the local system.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Ensure that you have the correct release and service levels of zFS in your sysplex.

IOEZ00908I

An MVS catalog service call for *aggregate_name* failed with *rc=return_code* *rsn=reason_code*.

Explanation

A catalog operation was required to determine whether the aggregate is eligible for certain zFS operations and it failed. For example, if a format at mount is desired or if encryption is desired for an existing aggregate, a catalog operation is required. The return and reason codes are from the MVS catalog service.

In the message text:

aggregate_name

The name of the aggregate.

return_code

The return code from the catalog service.

reason_code

The reason code from the catalog service.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Find the specified catalog return and reason codes documented in *z/OS MVS System Messages, Vol 6 (GOS-IEA)* under message IDC3009I, and determine the cause of the problem. After correcting the problem, try the operation again.

IOEZ00942E

***aggregate_name* failed to mount read-only because recovery is required.**

Explanation

The mount for the aggregate failed because it was not cleanly unmounted the last time it was used. Aggregate recovery needs to be performed before it can be successfully mounted.

In the message text:

aggregate_name

The name of the aggregate.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Mount the aggregate read/write, unmount it, and mount it read-only. Or, set the IOEFSPRM configuration variable ROMOUNT_RECOVERY=ON and mount the aggregate read-only.

IOEZ00943E

***aggregate_name* failed to mount because ICSF (Integrated Cryptographic Service Facility) is not started or cannot be accessed. Resolve the problem with ICSF and try the mount again.**

Explanation

The aggregate mount failed because the aggregate uses DFSMS VSAM encryption services but communication with ICSF has failed. ICSF may have issued messages that indicate the problem.

In the message text:

aggregate_name

The name of the aggregate.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Check the system log for ICSF messages that indicate what the problem is and how to resolve it. Follow their recommendations and try mounting the aggregate again.

IOEZ00947A

Terminating exception *AbendCode* occurred, reason *ReasonCode* abend psw *PSW1 PSW2*.

Explanation

A zFS kernel subroutine encountered an exception. A dump will be issued and the internal trace table will be printed. Severe problems encountered during initialization or during an internal restart will result in the termination of zFS and the system will display a BPXF032D message that must be replied to before zFS can be reinitialized. See [z/OS MVS System Codes](#) for more information about abend codes.

In the message text:

AbendCode

The z/OS abend code received.

ReasonCode

The zFS abend reason code received.

PSW1

The first word of the abend PSW.

PSW2

The second word of the abend PSW.

System action

The program continues.

Severity

svc_c_sev_fatal

Administrator Response

This message might be preceded by messages with more information about the problem. This message will be followed by additional informational messages. Contact your service representative.

IOEZ00948A

**Terminating exception *a_code* occurred, reason *r_code* abend psw
<*PSW_1 PSW_2*> <*PSW_3 PSW_4*>.**

Explanation

A zFS kernel subroutine encountered an exception while running in AMODE64. A dump will be issued and the internal trace table will be printed. Severe problems encountered during initialization or during an internal restart will result in the termination of zFS and the system will display a BPXF032D message that must be replied to before zFS can be reinitialized. See *z/OS MVS System Codes* for more information about abend codes.

In the message text:

a_code

The z/OS abend code received.

r_code

The z/OS reason code received

PSW_1

The high half of the first doubleword of the abend PSW.

PSW_2

The low half of the first doubleword of the abend PSW.

PSW_3

The high half of the second doubleword of the abend PSW.

PSW_4

The low half of the second doubleword of the abend PSW.

System action

The program continues.

Severity

svc_c_sev_fatal

Administrator Response

This message might be preceded by messages that indicate more about the problem. This message is followed by additional informational messages. Contact your service representative.

IOEZ00949E

Mount for file system *filesystem_name* failed because the dataset does not refer to the same dataset as the owner *owner_name*. The client extent *volser*, *low_CI*, *hi_CI* cannot be found within any extent on the owner.

Explanation

The named file system does not refer to the same data set as on the owning system. The local mount fails and z/OS UNIX will function ship operations to the z/OS UNIX owner.

In the message text:

filesystem_name

The name of the file system.

owner_name

The name of the owner.

volser

The VOLSER in the client.

low_CI

The low CI in the client.

hi_CI

The high CI in the client.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

If z/OS UNIX function shipping is not desired, ensure that the file system refers to the same data set. Then unmount and remount.

IOEZ00950E***ProgName: MODIFY command - Parm rejected.*****Explanation**

The MODIFY command *Parm* has been rejected. The *Parm* command cannot be processed until the zFS kernel has completed initialization. An abort or internal restart in progress can also result in this error.

In the message text:

ProgName

The program name.

Parm

The program parameters on the MODIFY command that were passed to zFS.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Retry the command after initialization completes. If initialization does not complete, zFS may need to be canceled. If the problem continues, contact your service representative.

IOEZ00951I***Aggregate aggregate_name anode table length anode_table_size
LPI=LPI_value encrypt_status compress_status.*****Explanation**

The encryption and compression attributes of the aggregate are displayed before the anode table pages are verified. The information is intended for IBM service personnel.

In the message text:

aggregate_name

The name of the aggregate.

anode_table_size

The anode table size in 8K.

LPI_value

The LPI value.

encrypt_status

The encryption status.

compress_status

The compression status.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00952E

File inode *inode_name* received snap-shot close error for file system *filesystem_name*.

Explanation

A file opened for incremental backup could not be closed. This may make some space on-disk unusable and may make future backup attempts of the indicated file fail.

In the message text:

inode_name

The inode number of the file.

filesystem_name

The file system name.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

First make sure that there are no communication problems in the sysplex. Once those are resolved, an unmount remount without mode-switch can be used to clear the condition.

IOEZ00953E

Media Manager return code *ReturnCode* disconnecting aggregate *aggregate_name*.

Explanation

The return code for the Media Manager disconnect was nonzero for the specified aggregate. This might occur during a failed mount or during an unmount of the specified aggregate.

In the message text:

ReturnCode

The hexadecimal return code from the Media Manager request.

aggregate_name

The name of the aggregate.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Look up the return code in *z/OS DFSMSdfp Diagnosis* in the return codes section for the Media Manager. System resources obtained by Media Manager might still be held, potentially preventing future mounts and other operations for the aggregate from working correctly. Contact your service representative.

IOEZ00957E

zFS failed to assign key label *keylabel_name* to *aggregate_name* because it is not known to ICSF.

Explanation

ISCF does not recognize the key label.

In the message text:

aggregate_name

The name of the aggregate.

keylabel_name

The name of the key label.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Ensure that the correct key label is specified and try the command again.

IOEZ00958E

ICSF could not be contacted to verify key label *keylabel_name* for aggregate *aggregate_name*.

Explanation

The key label must be known to ICSF before it can be used when defining or encrypting a zFS aggregate.

In the message text:

aggregate_name

The name of the aggregate.

keylabel_name

The name of the key label.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Ensure that ICSF is running and verify that the key label is defined.

IOEZ00959E ICSF returned error code *error_code* reason code *reason_code* while verifying key label *keylabel_name* for aggregate *aggregate_name*.

Explanation

A problem was encountered while using ICSF to verify a key label.

In the message text:

aggregate_name

The name of the aggregate.

error_code

The error code.

keylabel_name

The name of the key label.

return_code

The return code.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and try the command again. Reason codes are documented in [*z/OS Cryptographic Services ICSF Application Programmer's Guide*](#).

IOEZ00960E IOEFSKN termination hang, detaching IOEFSKN.

Explanation

IOEFSKN has started the termination process for a shutdown command or a zFS severe software error (abort). However, program IOEFSCM has detected a delay in that processing and considers that process is hung and is taking action to force termination to continue by detaching the IOEFSKN program. A detach abend might occur but termination now proceeds. The zFS restart prompt will likely be issued.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact your service representative.

IOEZ00961E IO driver termination problem detected, continuing termination.

Explanation

The IOEFSKN main task has detected that there were problems encountered while terminating the zFS IO driver during a shutdown operation or an abnormal termination. Termination processing continues but zFS will end and the zFS restart prompt will likely be issued.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact your service representative.

IOEZ00962E Memory registration service FPZ4RMR failed with return code *return_code* reason code *reason_code*.

Explanation

A problem was encountered when calling compression service FPZ4RMR.

In the message text:

return_code

The return code.

reason_code

The reason code.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and try the command again. Return code and reason code are documented in [z/OS MVS Programming: Callable Services for High-Level Languages](#).

IOEZ00963E The encryption type associated with key label *keylabel* is not supported by DFSMS.

Explanation

DFSMS only supports AES-256 XTS protected key encryption.

In the message text:

keylabel

The key label.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response:

Try the command again with a different key label.

IOEZ00964E

component returned error code *return_code* reason code *reason_code* while trying to open aggregate *aggregate_name*.

Explanation

A problem was encountered while opening an aggregate.

In the message text:

aggregate_name

The aggregate name.

component

The name of the component.

reason_code

The reason code.

return_code

The return code.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response:

See accompanying message IEC161I, correct the problem, and try the command again.

IOEZ00965E

The *-keylabel* parameter is not allowed because aggregate *aggregate_name* already has a key label.

Explanation

The *-keylabel* parameter should only be used for an aggregate which does not have a key label.

In the message text:

aggregate_name

The aggregate name.

System action

The program continues.

Administrator Response

Review the system logs for error messages related to dynamic allocation and the specified data set. Correct the error and retry the operation.

IOEZ00982E

Offset *offset* of inode *inode_number* in file system *file_system* cannot be decompressed.

Explanation

The data at the indicated offset of the listed file could not be decompressed due to an error returned by zEDC routine FPZ4ABC or there is incorrect data in that region of the file. If FPZ4ABC failed, additional messages will have preceded this message describing that error. System 2C3 dumps may also have preceded this message.

In the message text:

file_system

The name of the file system with the error.

inode_number

The inode number of the file in the file system.

offset

The offset into the file.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

The indicated file has one or more regions that cannot be decompressed. Delete or restore that file by using a method applicable to the type of data the file contained. Restoring from a backup is the typical method used to repair the file. Report the problem to your service representative.

IOEZ00983I

File with inode=*inode_number* (size=*inode_size*) in aggregate *aggregate_name* is being encrypted or decrypted.

Explanation

zFS is in the process of encrypting or decrypting the file with the specified inode in the specified aggregate. The file size (in K) is also specified. The encryption or decryption process is delayed, and so might take a long time to complete. A possible cause of the delay is an application that is accessing the file during this operation. Use the **ls -i** command to find the file name and then use the FILEINFO command to monitor the percentage completion of the operation.

In the message text:

aggregate_name

The name of the aggregate.

inode_number

The number of the inode.

inode_size

The size of the inode in K.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

If the delay is not acceptable, the operation can be canceled. If you are encrypting the file, you can cancel the encryption by using the **zfsadm encrypt -cancel** command. If you are decrypting the file, use the **zfsadm decrypt -cancel** command. Both actions will cancel the encryption or decryption processing of the entire aggregate. If you want to determine which file this is, you can use the **ls -i** command.

IOEZ00984I

File with inode=*inode_number* (size=*inode_size*) in aggregate *aggregate_name* is being compressed or decompressed.

Explanation

zFS is in the process of compressing or decompressing the file with the specified inode in the specified aggregate. The file size (in K) is also specified. The compression or decompression process is delayed, and so might take a long time to complete. A possible cause of the delay is an application that is accessing the file during this operation. Use the **ls -i** command to find the file name and then use the FILEINFO command to monitor the percentage completion of the operation.

In the message text:

aggregate_name

The name of the aggregate.

inode_number

The number of the inode.

inode_size

The size of the inode in K.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

If the delay is not acceptable, the operation can be canceled. If you are compressing the file, you can cancel the compression by using the **zfsadm compress -cancel** command. If you are decompressing the file, use the **zfsadm decompress -cancel** command. Both actions will cancel the compression or decompression processing of the entire aggregate. If you want to determine which file this is, you can use the **ls -i** command.

IOEZ00985I

Waiting for *service_name* to initialize.

Explanation

The named service is not available. zFS is waiting to allow the service to initialize.

In the message text:

service_name

The name of the service.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00986I Wait ending and *service_name* is not initialized.

Explanation

After waiting, the named service is still not initialized. Operations requiring this service will fail.

In the message text:

service_name

The name of the service.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

Determine why the named service will not initialize and restart the service.

IOEZ00987I *service_name* is now initialized.

Explanation

The named service is now available.

In the message text:

service_name

The name of the service.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Operations that failed because the service was not initialized can now be retried.

IOEZ00988I The wait for *service_name* initialization ended because zFS is being stopped or restarted.

Explanation

zFS has stopped waiting for the named service to initialize.

In the message text:

service_name

The name of the service.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

When zFS is restarted, ensure that the named service is initialized before retrying operations that require the service.

IOEZ00989I

The wait for *service_name* initialization is not started because zFS is being stopped or restarted.

Explanation

Since zFS is being stopped or restarted, it does not need to wait for the initialization of the named service.

In the message text:

service_name

The name of the service.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

When zFS is restarted, ensure that the named service is initialized before retrying operations that require the service.

IOEZ00990E

Mount for aggregate *aggregate_name* failed because ICSF is not initialized.

Explanation

Opens that are waiting for ICSF to come up are failed when zFS is in the process of being stopped or restarted.

In the message text:

aggregate_name

The aggregate name.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Try the operation again after ICSF is initialized.

IOEZ00991E Mount for aggregate *aggregate_name* failed because zFS is being stopped or restarted.

Explanation

Mounts that are waiting for ICSF to initialize are failed when zFS is being stopped or restarted.

In the message text:

aggregate_name

The aggregate name.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Try the mount again when ICSF is initialized and zFS is not being stopped or restarted.

IOEZ00992E Open for aggregate *aggregate_name* failed because ICSF is not initialized.

Explanation

ICSF is not initialized. zFS cannot open an aggregate that has a key label if ICSF is not initialized

In the message text:

aggregate_name

The aggregate name.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Try the operation again after ICSF is initialized.

IOEZ00993E Open for aggregate *aggregate_name* failed because zFS is being stopped or restarted.

Explanation

Opens that are waiting for a ICSF to initialize are failed when zFS is being stopped or restarted.

In the message text:

aggregate_name

The aggregate name.

Administrator Response

No action is required if you plan to use encrypted file systems. If zFS is still waiting when ICSF is initialized, then contact the service representative. If you do not plan on using encryption, then remove the configuration parameter before the next IPL of the system.

IOEZ01000I

zFS is waiting for SMS initialization.

Explanation

zFS is waiting for SMS to initialize because the IOEFSPRM configuration option `user_cache_size` has the EDCFIXED option specified. zFS will continue initialization once it receives notification that zEDC is available. SMS and zEDC are required products for zFS compression.

System action

The program continues.

Severity

`svc_c_sev_notice`

Administrator Response

No action is required if you plan to use compressed file systems. If zFS is still waiting when SMS is initialized, then contact the service representative. If you do not plan on using compression, then remove the configuration parameter before the next IPL of the system.

IOEZ01001I

zFS is waiting for zEDC initialization.

Explanation

zFS is waiting for zEDC to initialize because the IOEFSPRM configuration option `user_cache_size` has the EDCFIXED option specified. zFS will continue initialization once it receives notification that zEDC is available. SMS and zEDC are required products for zFS compression.

System action

The program continues.

Severity

`svc_c_sev_notice`

Administrator Response

No action is required if you plan to use compressed file systems. If zFS is still waiting when zEDC is initialized, then contact the service representative. If you do not plan on using compression, then remove the configuration parameter before the next IPL of the system.

IOEZ01002E

The encryption of aggregate *aggregate_name* failed because ICSF services are not available.

Explanation

File systems cannot be encrypted when ICSF services are not available.

In the message text:

aggregate_name

The name of the file system.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Try the command again after ICSF is available.

IOEZ01003I File system *file_system* received a compression failure due to lack of zEDC devices.

Explanation

A compression file write for one or more files in the indicated file system failed due to lack of zEDC devices. The file data will be stored in noncompressed format. No application errors will occur but the file system might benefit from a decompress and a compress command to save maximum space.

In the message text:

file_system

The name of the file system.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Once zEDC devices are available, you can decompress the file system and compress it again to determine if space savings can be made. This is likely only useful if the file system is large or has many large files.

IOEZ01004E File system *file_system* CI=*control_interval_number* (*data_type* inode=*inode_number*) is not stored in encrypted format.

Explanation

A decryption read request of an extended format data set found that zFS has stored data that is supposed to be encrypted, in the clear. The type of data that is affected is enclosed in parentheses. It is one of the following values: meta (internal file system metadata), compressed file, or uncompressed file. A dump will be generated to provide diagnostics for IBM service. If the data is file data, then the inode of the owning file is shown. For metadata, this value will be zero.

In the message text:

control_interval_number

The control interval number.

data_type

The type of affected data.

file_system

The name of the file system.

inode_number

The inode number of the affected file.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

If the data type is meta or compressed file data, you can use the salvager program to correct the condition. If the data is uncompressed file data, then *inode* identifies the file. That file can be rewritten with new contents. For example, use the **cp** command to copy the file to a new name and then use the **mv** command to change the new file to the original name. Then delete the old file. Report the problem to the service representative.

IOEZ01005I **Successfully repaired corrupted data for file (with index *file_index*). The compression group information: *logpage logical_page* total pages *pages_before_compression* compressed pages *pages_after_compression*.**

Explanation

The salvager found corrupted encrypted data in the file with the specified index and repaired the corrupted data. The corrupted data is on an aggregate that is in compressed format. The compression group information that is associated with the corrupted data is also displayed and is intended for IBM service.

In the message text:

file_index

The file index.

logical_page

The first logical page in the compression group.

pages_before_compression

The number of pages before compression.

pages_after_compression

The number of pages after compression.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ01006I **Successfully repaired corrupted data in physical page *physical_page*.**

Explanation

The salvager found corrupted encryption data in the specified physical page and repaired the corrupted data. This message is intended for IBM service.

In the message text:

physical_page

The physical page in the zFS aggregate.

Severity

svc_c_sev_notice

Administrator Response

If the delay is unacceptable, the shrink process can be canceled by using the **zfsadm shrink -cancel** command. If you want to determine which file or directory the inode represents, you can use the **ls -i** command. Otherwise, wait for the shrink command to complete.

IOEZ01009I

**Call to catalog service for dataset *aggregate_name* failed,
rc=*ReturnCode* rsn=*ReasonCode*.**

Explanation

A call to the MVS catalog service for the specified data set failed. The return and reason codes are from the MVS catalog service. Other system processing that depends on the catalog entry may not function properly.

In the message text:

aggregate_name

The name of the file system.

ReturnCode

The catalog service return code.

ReasonCode

The catalog service reason code.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Catalog return and reason codes are listed in message IDC3009I in *z/OS MVS System Messages, Vol 6 (GOS-IEA)*. Find the specified return and reason codes in order to determine the problem.

IOEZ01027E

Conversion to version 1.4 file system is disabled.

Explanation

zFS no longer supports the creation of version 1.4 file systems and disallows the conversion to a version 1.4 file system.

System action

IOEFSUTL program ends.

Severity

svc_c_sev_error

Administrator Response

Submit the JCL on a V2R2 or V2R3 system to convert the aggregate to version 1.4.

IOEZ01028E

Unexpected errors during takeover processing for HA file system *filesystem_name* with new owner *system_name*.

Explanation

zFS encountered unexpected errors while resolving pending operations that were in progress when the original owner of the file system went down. This means the applications that requested those operations will receive EIO (122) errors from zFS.

In the message text:

filesystem_name

The name of the file system.

system_name

The name of the system..

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact your service representative.

IOEZ01029E

The HA attribute is not assigned to file system *file_system_name* because system *system_name* does not support high availability file systems.

Explanation

The HA attribute was to be assigned to the specified file system either because the HA mount parameter was specified or the IOEFSPRM configuration option HA=ON is specified. The HA attribute can only be used when all members of a sysplex support high availability file systems.

In the message text:

file_system

The name of the file system.

system_name

The name of the system that does not support high availability file systems.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

To use the HA file system attribute, ensure that all members in the sysplex have OA57508 applied. Then you can enable the HA attribute for this file system by using the **zfsadm chaggr** command with the -ha option. Alternatively, you could unmount the file system, and mount it again with the HA mount parameter. Or, you can issue the **zfsadm config** command with -ha on specified, then unmount and mount the file system again.

IOEZ01030E

Initializing system *system_name* will not be allowed to join the sysplex because it does not support high availability file systems.

Explanation

There is at least one high availability (HA) mounted file system in the sysplex. HA support requires that all members of a sysplex support HA.

In the message text:

system_name

Name of the initializing system that does not support HA.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

zFS on the initializing system will terminate. To correct this problem, either unmount or change the HA status of all file systems that are currently mounted HA. The **zfsadm chaggr** command can be used to change the HA status of a file system.

IOEZ01031E

Invalid wildcard pattern in aggregate name *aggregate_name*.

Explanation

zfsadm chaggr only supports wildcards that have '*' at either the beginning or the end of the aggregate name, or both.

In the message text:

aggregate_name

The name of the aggregate with the wildcard.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the aggregate name and try again.

z/OS File System

Reference documentation:

IBM Health Checker for z/OS User's Guide

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0040I zFS is running with a default meta_cache_size of cur_size.

Explanation:

zFS is running with a default metadata cache size. No action is required.

System action:

The system continues processing.

Operator response:

N/A

System programmer response:

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in *z/OS File System Administration*.

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0041I zFS is running with a default_or_specified meta_cache_size of meta_size and a default_or_specified metaback_cache_size of metaback_size. The calcul_default_or_overridden meta_cache_size is meta_sizeM. The sum of the current two cache sizes sumM is greater than or equal to the default meta_cache_size calcul_default_or_overriddenM.

Explanation

zFS is running with the indicated metadata cache size and metadata backing cache size. The sum of the current cache sizes is greater than (or equal to) the default (or user-overridden) metadata cache size. No action is required.

If the user-specified metadata cache size is less than 1 M (minimum) or more than 64 G (maximum), zFS replaces it with the minimum or maximum value and displays the current metadata cache size with the new value. If the user-specified metadata backing cache size is less than 1 M (minimum) or more than 2048 M (maximum), zFS replaces it with the minimum or maximum value and displays the current metadata backing

cache size with the new value. If either case is true, check the value that is defined in meta_cache_size or metaback_cache_size option in the IOEFSPRM configuration file and verify that it is within the valid range.

System action:

The system continues processing.

Operator response:

N/A

System programmer response:

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [*z/OS File System Administration*](#).

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0042I

zFS is running with a default user_cache_size of size.

Explanation:

zFS is running with a default user_cache_size. No action is required.

System action:

The system continues processing.

Operator response:

N/A

System programmer response:

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [*z/OS File System Administration*](#).

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0043I

zFS is running with a *default_or_specified* user_cache_size of *cur_size* and the user cache size is greater than or equal to the *calcul_default_or_overridden* size of *new_size* M.

Explanation

zFS is running with the indicated user cache size that is greater than or equal to the default or user-overridden user cache size. No action is required.

If the user-specified user cache size is less than 10M (minimum) or more than 65536M (maximum), zFS replaces it with the minimum or maximum value and displays the current size with the new value. If that is the case, check the value that is defined in the user_cache_size option in the IOEFSPRM configuration file and verify that it is within the valid range.

System action:

The system continues processing.

Operator response:

N/A

System programmer response:

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [*z/OS File System Administration*](#).

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0044E

zFS is running with a *default_or_specified* meta_cache_size of *cache_size* and a *default_or_specified* metaback_cache_size of *cache_size*. The *calcul_default_or_overridden* meta_cache_size is *cache_size* M. The sum of the current two cache sizes *cur_sum* M is less than the *calcul_default_or_overridden* meta_cache_size *new_sum* M.

Explanation

zFS is running with the indicated metadata cache size and metadata backing cache size. The sum of the current two cache sizes is less than the default (or user-overridden) metadata cache size. Running with a very small metadata cache might affect zFS performance. See the topic on "Performance tuning" in [*z/OS File System Administration*](#) to determine whether the current settings might impact zFS performance.

If the user-specified metadata cache size is less than 1 M (minimum) or more than 64 G (maximum), zFS replaces it with the minimum or maximum value and displays the current metadata cache size with the new value.

If the user-specified metadata backing cache size is less than 1 M (minimum) or more than 2048 M (maximum), zFS replaces it with the minimum or maximum value and displays the current metadata backing cache size with the new value.

System action:

The system continues processing.

Operator response:

Report this problem to the system programmer.

System programmer response

For user-specified cache size, check the value that is defined in `meta_cache_size` or `metaback_cache_size` option in the IOEFSPRM configuration file and verify that it is within the valid range. Depending on the performance analysis, if the current settings do not perform as well as the default size, specify `meta_cache_size` with the default size in your IOEFSPRM configuration file and restart zFS. The `meta_cache_size` configuration option can also be dynamically updated using the **zfsadm config** command.

Otherwise, specify the current meta cache size with the user override check parameter `meta_cache` on the PARM statement (for either HZSPRMxx or MODIFY hzsproc) in order to make the check succeed.

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on "Performance tuning" in *z/OS File System Administration*.

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0045E

zFS is running with a *default_or_specified user_cache_size* of *cur_size* that is less than the *calcul_default_or_overridden* size of *new_size* M.

Explanation

zFS is running with the indicated user cache size and the size is less than the default or user-overridden user cache size. Running with a very small user cache size could affect zFS performance. See the topic on Performance tuning in *z/OS File System Administration* to determine whether the current setting might affect zFS performance.

If the user-specified user cache size is less than 10M (minimum) or more than 65536M (maximum), zFS replaces it with the minimum or maximum value and displays the current size with the new value.

System action:

The system continues processing.

Operator response:

Report this problem to the system programmer.

System programmer response:

For a user-specified cache size, check the value that is defined in the `user_cache_size` option in the IOEFSPRM configuration file and verify that it is within the valid range. Depending on the performance analysis, if the current setting does not perform as well as the default value, specify `user_cache_size` with the default size in your IOEFSPRM configuration file and restart zFS. The `user_cache_size` configuration option can also be dynamically updated using the **zfsadm config** command. Otherwise, specify the current user cache size with the user override check parameter `user_cache` on the PARM statement (for either HZSPRMxx or MODIFY hzsproc) in order to make the check succeed.

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on "Performance tuning" or "IOEFSPRM" in [*z/OS File System Administration*](#).

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0062I **zFS configuration option metaback_cache_size is not specified.****Explanation:**

zFS is currently running with the metaback_cache_size option unspecified. zFS IOEFSPRM configuration option metaback_cache_size is no longer needed. The entire size of the metadata cache should be specified in IOEFSPRM configuration file option meta_cache_size. It is not required, but is recommended to keep your IOEFSPRM configuration file clean of outdated specifications to avoid any future confusion. No action is required.

System action:

The system continues processing.

Operator response:

N/A

System programmer response:

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [*z/OS File System Administration*](#)

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0063I **zFS configuration option tran_cache_size is not specified.****Explanation:**

zFS IOEFSPRM configuration option tran_cache_size is ignored. zFS is currently running with the tran_cache_size unspecified. No action is required.

System action:

The system continues processing.

Operator response:

N/A

System programmer response:

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [z/OS File System Administration](#)

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0064I zFS configuration option `client_cache_size` is not specified.**Explanation:**

zFS IOEFSPRM configuration option `client_cache_size` is ignored. zFS is currently running with the `client_cache_size` unspecified. No action is required.

System action:

The system continues processing.

Operator response

N/A

System programmer response

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [z/OS File System Administration](#)

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0065E zFS configuration option `metaback_cache_size` is specified.**Explanation:**

zFS IOEFSPRM configuration option `metaback_cache_size` is currently specified, but is no longer needed. The entire size of the metadata cache should be specified in IOEFSPRM configuration file option `meta_cache_size`. It is not required, but is recommended to keep your IOEFSPRM configuration file clean of outdated specifications to avoid any future confusion.

System action:

The system continues processing.

Operator response

Report this problem to the system programmer.

System programmer response:

You should assign the combined values of the `metaback_cache_size` and `meta_cache_size` options into just the `meta_cache_size` option to ensure that zFS will continue to have similar performance. You can remove the specification of the `metaback_cache_size` option in the IOEFSPRM configuration file to avoid any future confusion. Otherwise, specify the user override check parameter `METABACK(EXISTENCE)` on the PARM string (via `HZSPRMxx` or `MODIFY hzsproc`) in order to make the check succeed.

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on "Performance tuning" or "IOEFSPRM" in [*z/OS File System Administration*](#)

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0066E

zFS configuration option `tran_cache_size` is specified.

Explanation:

zFS is currently running with a specified `tran_cache_size`. zFS IOEFSPRM configuration option `tran_cache_size` is ignored.

System action:

The system continues processing.

Operator response

Report this problem to the system programmer.

System programmer response:

Since zFS IOEFSPRM configuration option `tran_cache_size` is ignored, you should remove specification of `tran_cache_size` in IOEFSPRM to avoid any future confusion. Otherwise, specify the user override check parameter `TRANS(EXISTENCE)` on the PARM string (via `HZSPRMxx` or `MODIFY hzsproc`) in order to make the check succeed.

Problem determination:

N/A

Module:

IOEZHCK1

Source:

Reference documentation

See the topic on IOEFSPRM in [z/OS File System Administration](#)

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0067E **zFS configuration option client_cache_size is specified.**

Explanation:

zFS is currently running with a specified client_cache_size. zFS IOEFSPRM configuration option client_cache_size is ignored.

System action:

The system continues processing.

Operator response:

Report this problem to the system programmer.

System programmer response:

Since zFS IOEFSPRM configuration option client_cache_size is ignored, you should remove specification of client_cache_size in IOEFSPRM to avoid any future confusion. Otherwise, specify the user override check parameter CLIENT(EXISTENCE) on the PARMS string (via HZSPRMxx or MODIFY hzsproc) in order to make the check succeed.

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [z/OS File System Administration](#)

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0068I **zFS configuration option metaback_cache_size is specified.**

Explanation:

The check override parameter METABACK(EXISTENCE) is specified in the PARMS string (via HZSPRMxx or MODIFY hzsproc) to verify that the configuration option metaback_cache_size has been specified. The check found zFS is currently running with a specified metaback_cache_size. zFS IOEFSPRM configuration option metaback_cache_size is no longer needed. The combined values of the metaback_cache_size and meta_cache_size options should be assigned into just the meta_cache_size option to ensure that zFS will continue to have similar performance. You can remove the specification of the metaback_cache_size option in the IOEFSPRM configuration file to avoid any future confusion.

System action:

The system continues processing.

Operator response:

N/A

System programmer response:

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:See the topic on IOEFSPRM in [z/OS File System Administration](#)**Automation:**

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0069I**zFS configuration option tran_cache_size is specified.****Explanation:**

The check override parameter TRANS(EXISTENCE) is specified in the PARMS string (via HZSPRMxx or MODIFY hzsproc) to verify that the configuration option tran_cache_size has been specified. The check found zFS is currently running with a specified tran_cache_size. zFS IOEFSPRM configuration option tran_cache_size is ignored.

System action:

The system continues processing.

Operator response:

N/A

System programmer response:

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentationSee the topic on IOEFSPRM in [z/OS File System Administration](#)**Automation:**

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0070I**zFS configuration option client_cache_size is specified.**

Explanation:

The check override parameter CLIENT(EXISTENCE) is specified in the PARMS string (via HZSPRMxx or MODIFY hzsproc) to verify that the configuration option `client_cache_size` has been specified. The check found zFS is currently running with a specified `client_cache_size`. zFS IOEFSPRM configuration option `client_cache_size` is ignored.

System action:

The system continues processing.

Operator response:

N/A

System programmer response:

Remove the user override check parameter METABACK(EXISTENCE) from the PARMS string (via HZSPRMxx or MODIFY hzsproc) or specify the user override check parameter METABACK(ABSENCE) in order to make the check succeed.

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [z/OS File System Administration](#)

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0071E**zFS configuration option `metaback_cache_size` is not specified.****Explanation:**

The check override parameter METABACK(EXISTENCE) is specified in the PARMS string (via HZSPRMxx or MODIFY hzsproc) to verify the configuration option `metaback_cache_size` has been specified. The check found `metaback_cache_size` is not specified. zFS IOEFSPRM configuration option `metaback_cache_size` is no longer needed. No action is required for the `metaback_cache_size` option.

System action:

The system continues processing.

Operator response

Report this problem to the system programmer.

System programmer response

Remove the user override check parameter METABACK(EXISTENCE) from the PARMS string (via HZSPRMxx or MODIFY hzsproc) or specify the user override check parameter METABACK(ABSENCE) in order to make the check succeed.

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [z/OS File System Administration](#)

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0072E **zFS configuration option tran_cache_size is not specified.**

Explanation:

The check override parameter TRANS(EXISTENCE) is specified in the PARMS string (via HZSPRMxx or MODIFY hzsproc) to verify the configuration option tran_cache_size has been specified. The check found tran_cache_size is not specified. zFS IOEFSPRM configuration option tran_cache_size is ignored. No action is required for the tran_cache_size option.

System action:

The system continues processing.

Operator response:

Report this problem to the system programmer.

System programmer response:

Remove the user override check parameter TRANS(EXISTENCE) from the PARMS string (via HZSPRMxx or MODIFY hzsproc) or specify the user override check parameter TRANS(ABSENCE) in order to make the check succeed.

Problem determination:

N/A

Module:

IOEZHCK1

Source

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [z/OS File System Administration](#)

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0073E **zFS configuration option client_cache_size is not specified.**

Explanation:

The check override parameter CLIENT(EXISTENCE) is specified in the PARMS string (via HZSPRMxx or MODIFY hzsproc) to verify the configuration option client_cache_size has been specified. The check found client_cache_size is not specified. zFS IOEFSPRM configuration option client_cache_size is ignored. No action is required for the client_cache_size option.

System action:

The system continues processing.

Operator response:

Report this problem to the system programmer.

System programmer response:

Remove the user override check parameter CLIENT(EXISTENCE) from the PARMS string (via HZSPRMxx or MODIFY hzsproc) or specify the user override check parameter CLIENT(ABSENCE) in order to make the check succeed.

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topic on IOEFSPRM in [z/OS File System Administration](#).

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0074E

The zFS USER_CACHE_SIZE specification of *nn*M results in a user cache configured as *nn* cache spaces, each with *nn* 8K spaces.
nn cache spaces are registered with the zEDC Express Service
nn are registered
nn are not registered
nn file systems out of *nn* are compressed.
Compressed file systems are better supported when all cache spaces are registered with the zEDC Express service.

Explanation:

zFS is operating with compressed aggregates and the user cache is not optimally configured. All cache spaces should be registered with the zEDC Express service for better performance.

System action:

The system continues processing.

Operator response

N/A

System programmer response:

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topics on "User file cache", "Fixed storage," and "Compress" in [z/OS File System Administration](#).

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0075I

The zFS `USER_CACHE_SIZE` specification of `nnM` results in a user cache configured as `nn` cache spaces, each with `nn` 8K spaces.
`nn` cache spaces are registered with the zEDC Express Service
`nn` are registered
`nn` are not registered
`nn` file systems out of `nn` are compressed.
An exception condition has not been detected. Relative to zEDC support, zFS is appropriately configured.

Explanation:

zFS is operating with compressed aggregates and the user cache is not optimally configured. All cache spaces should be registered with the zEDC Express service for better performance.

System action:

The system continues processing.

Operator response:

N/A

System programmer response:

N/A

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

See the topics on "User file cache", "Fixed storage," and "Compress" in *z/OS File System Administration*.

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

Chapter 4. IOENnnnnnt: General DFS messages

This section contains the messages that identify general DFS errors.

IOEN00100I DFS daemon *dfs_process* is starting.

Explanation

The associated DFS process, *dfs_process*, is starting. It is an indication that the program has been successfully loaded and started by the DFSCNTL task.

System action

The program continues.

Severity

svc_c_sev_warning

IOEN00101I *dfs_process*: Stop command received.

Explanation

The associated DFS process, *dfs_process*, is stopping. It is an indication that the program has been terminated by the DFSCNTL task.

System action

The program continues.

Severity

svc_c_sev_warning

IOEN00102I *dfskern_process*: Detaching aggregates that are still attached.

Explanation

The DFSKERN process, *dfskern_process*, is stopping and it is detaching all aggregates that were being exported at the time the stop command was received.

System action

The program continues.

Severity

svc_c_sev_warning

IOEN00103I *dfskern_process*: Signaling TKM service threads to stop.

Explanation

The DFSKERN process, *dfskern_process*, is stopping and terminating TKM (Token Manager) service threads.

System action

The program continues.

Severity

svc_c_sev_warning

IOEN00104I DFS daemon *daemon_name* has stopped.

Explanation

The specified DFS daemon has stopped. This message is issued if the daemon is stopped using the STOP command, or if the daemon stops unexpectedly. If the daemon stops unexpectedly, the Distributed File Service kernel attempts to start it again.

System action

The program continues.

Severity

svc_c_sev_warning

IOEN00106I DFS daemon *daemon_name* is ready for requests.

Explanation

The specified DFS daemon has been started and is awaiting requests.

System action

The program continues.

Severity

svc_c_sev_warning

IOEN00107A Immediate end of processing requested: *message_string*.

Explanation

The DFSKERN process is stopping due to an unrecoverable error. A CEEDUMP is produced.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative.

Additional information about dumps is found in the [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_fatal

IOEN00109A *ProgramName: Error with translation function **funcioName**.*

Explanation

ProgramName encountered an error when obtaining the translation tables for EBCDIC to ASCII conversion (and vice-versa). There may be a risk if HFS data conversion is requested.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative if you need to request HFS data conversion. Conversion of binary files between HFS and clients may result in corruption of the file.

IOEN00110A *DFSKERN: Detaching aggregates: unable to list aggregates: **ErrorCode**.*

Explanation

DFSKERN encountered an error while attempting to list attached aggregates.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEN00111A *DFSKERN: Error detaching aggregate **AggrId**: code=**ErrorCode** (ignoring it).*

Explanation

DFSKERN encountered an error while attempting to detach aggregate *AggrId*.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEN00112A

DFSKERN: Unable to create key for thread_specific alet storage.

Explanation

DFSKERN encountered an error while attempting to create thread specific storage.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Try running DFS with a larger virtual storage size. If the problem continues, contact the service representative.

IOEN00113A

DFSKERN: Error initializing signal handler.

Explanation

An error was encountered attempting to define posix signal (abend) handler.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEN00114A

DFSKERN: Error setting up SIGTERM handler routine, code = *ErrorCode*.

Explanation

An error was encountered attempting to define the routine used to handle SIGTERM signals from the DFSCNTL task. The result is that a **STOP DFSKERN** command will not function properly.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEN00115A

DFSKERN: Error starting console thread, code = *ErrorCode*.

Explanation

An error was encountered attempting to start a thread to accept commands from the DFSCNTL task. SEND DFSKERN commands will be disabled as a result.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEN00116A *ProgName: Parameter Parameter is not valid for modify command CommandName.*

Explanation

The specified parameter *Parameter* is not valid for the *CommandName* command.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response:

Additional information about the syntax of the *CommandName* command is found in *z/OS Distributed File Service SMB Administration*.

IOEN00117A *ProgName: SEND command is not valid - Parm.*

Explanation

The syntax of the SEND command is not correct.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

For more information about command syntax, see *z/OS Distributed File Service SMB Administration*.

IOEN00118A *ProgName: SEND command - Parm failed.*

Explanation

The SEND command *Parm* failed.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

For more information about command syntax, see *z/OS Distributed File Service SMB Administration*. Verify that the command was entered with valid parameters. If the problem continues, contact the service representative.

IOEN00119I *ProgName: SEND command - Parm completed successfully.*

Explanation

The SEND command *Parm* was successful.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEN00120A *ProgName: Unable to set up to receive Operator commands.*

Explanation

The *ProgName* program was not able to setup to receive MODIFY commands from the operator.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEN00121A *ProgName: Unable to open DFS parameter file 'ParmFile'.*

Explanation

The *ProgName* program was not able to open the DFS/MVS parameter file. Default values will be used for DFS parameters.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Ensure the *ParmFile* file exists and that The *ProgName* program has read authority to the file. If problem continues, contact the service representative.

IOEN00122A *ProgName: Incorrect parameter record 'BadRecord' is ignored.*

Explanation

The *ProgName* program found an incorrect record in the DFS/MVS parameters file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the record and start *ProgName* again.

IOEN00123A *ProgName: Operand must be numeric (BadArg).*

Explanation

The *ProgName* program found a non-numeric value specified for a numeric operand.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Specify a numeric value and start *ProgName* again.

IOEN00124A *ProgName: BadArg exceeds maximum value MaxValue.*

Explanation

The *ProgName* program found a numeric operand that was too large.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Ensure that the operand *BadArg* is not larger than the *MaxValue* and restart *ProgName*.

IOEN00125A

ProgName: Operand must be string (BadArg).

Explanation

The *ProgName* program found a missing string operand.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Ensure the *BadArg* operand is specified and restart *ProgName*.

IOEN00126A

ProgName: BadArg exceeds max string length Maxlen.

Explanation

The *ProgName* program found a string operand that is too long.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Ensure the *BadArg* operand string is not greater than *Maxlen* and restart *ProgName*.

IOEN00127A

ProgName: Partition start list 'BadArg' not delimited by parentheses.

Explanation

The *ProgName* program found a syntax error in operand *BadArg* in the DFS/MVS parameter file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Ensure the *BadArg* operand string is delimited by parentheses and restart *ProgName*.

IOEN00128I

ProgName: Modify complete for Parameter Value.

Explanation

The *ProgName* program has successfully set the value of program parameter *Parameter* to *Value*.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEN00129A *ProgName: Incorrect parameter debug record 'BadRecord'.*

Explanation

The *ProgName* program found than a syntax error in an ioedebug record *BadRecord*.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the error in the ioedebug record and restart *ProgName*.

IOEN00130A *ProgName: Incorrect parameter BadParameter.*

Explanation

The *ProgName* program found an incorrect parameter *BadParameter* in the DFS/MVS parameters file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Specify a valid parameter and restart *ProgName*.

IOEN00131A *ProgName: Incorrect time zone name (TZname).*

Explanation

The *ProgName* program found an incorrect time zone name *TZname*.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Specify a valid time zone and restart *ProgName*.

IOEN00132A *ProgName*: glue debug level must be integer between 0 and 9.

Explanation

The specified glue debug level is not in the proper range.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Specify the **GLUEDEBUG** modify command with a range 0 - 9.

IOEN00133A *ProgName*: cminitdebug parameter must be either the word 'ON' or 'OFF'.

Explanation

An incorrect cminit debug value was specified.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Enter the **CMINITDEBUG** modify command with a value of 'ON' or 'OFF'.

IOEN00134A *ProgName*: Error encountered while reading dfsparms file.

Explanation

An error was encountered while attempting to read the DFS/MVS parameter file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

This message is preceded by additional messages detailing the cause of error. The most likely cause is that the DFS/MVS parameter file does not exist or contains a syntax error. Correct the error and restart *ProgName*.

IOEN00136A

SubrName: The protocol sequence, ProtSeq, is not valid.

Explanation

The DFS protocol sequence *ProtSeq* is incorrect.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEN00146A

ProgramName: The local code page CodePage is not supported.

Explanation

ProgramName determined that the local code page is not supported for translation of DFS/MVS file data. Any translation parameters will be ignored and the file data will not be converted.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Use a supported local code page.

IOEN00147I

DFSKERN: RFS Attributes file file was not found or could not be opened, errno=errno. DFS Server default attributes will be used.

Explanation

DFS cannot open the RFS Attributes file specified by the `_IOE_RFS_ATTRIBUTES_FILE` environment variable. Either the file does not exist, or another error condition occurred.

System action

The DFS File Server will use the system default attributes as a result of this error.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

Use the *errno* value indicated in the message to determine the cause of the failure. Correct the problem and restart the DFS File Server if the use of a specific attributes file is desired.

IOEN00151I DFS daemon *daemon_name* is ready to process *protocol_name* requests.

Explanation

The specified DFS daemon has been started and is awaiting requests for the specified protocol.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00152I *ProgName*: Using default values for DFS parameters.

Explanation

The *ProgName* program is using default values for DFS parameters.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEN00153I dfskern is ending with return code *ReturnCode*.

Explanation

The dfskern file server is ending with return code *ReturnCode*.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

If the return code is 0, no action is needed. If the return code is not equal to 0, the message will be preceded by other messages detailing the exact reason for termination.

IOEN00154A

Assertion Failed:Assertion Line:LineNo File:FileName.

Explanation

An assertion occurred in the code.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEN00195I

***programe: prodname featurename Version ver.rel.mod Service Level slv.
Created on date.***

Explanation

This message is issued when the level of DFS is queried using the QUERY command. The system returns the product name, feature name, version, release, modlevel, service level and creation date of the DFS Server Daemon.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00196I

***programe: Initializing prodname featurename Version ver.rel.mod
Service Level slv. Created on date.***

Explanation

This message is issued when the DFS control program begins initializing the DFS address space. It identifies the product name, feature name, version, release, modlevel, service level and creation date of the DFS Daemon.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00200A

Error "*error_message*" opening devtab file.

Explanation

The OEFS adapter cannot open the devtab file. A `strerror()` message is displayed.

System action

The program continues.

Severity

`svc_c_sev_error`

Administrator Response

Ensure that the devtab file was created and permitted correctly. Verify that the application is authorized and is running as UID 0 (root).

IOEN00201A **ATTACH processing cannot access its parameters - Error *error_code*.**

Explanation

An error occurred while copying parameters from the calling address space during an aggregate attach operation.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

`svc_c_sev_error`

Administrator Response

If the problem continues, contact the service representative.

IOEN00202A **Incorrect device specification encountered in devtab file.**

Explanation

An incorrect definition was encountered in the devtab file while attaching an HFS file system.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

`svc_c_sev_error`

Administrator Response

Verify that the devtab file contains only correct device definitions.

IOEN00203A

Missing device specification for minor device *minor_number*.

Explanation

While attaching an HFS file system, no device definition was found in the devtab file for the minor device number specified. In the message explanation:

minor_number

The minor device number.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

Verify that a definition exists in the devtab file for the specified minor device number. Check that the minor device name is specified correctly in the dfstab file. When specifying the minor device number in the devtab file, the value of *minor_number* must be a unique number 1 - 65535.

IOEN00204A

HFS translation set ON, binaries may not translate correctly.

Explanation

The requested translation for HFS data ended in error because either there is not a 1-1 mapping between the current host code page and ISO8859-1, or an error was encountered while attempting to determine if there is a 1-1 mapping.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

Copying binary files between client machines and HFS may result in corruption and should be avoided.

IOEN00205A

Missing data set specification for ufs minor device *minor_dev*.

Explanation

While attaching a ufs file system, the data set name was not found in the devtab file for the minor device number specified.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

Verify that a data set name exists on the line following the specified ufs minor device number in the devtab file.

IOEN00207A Rfstab entry "*bad_keyword*" on line *line_num* is not valid.

Explanation

While reading and processing the attributes file (**rfstab**), a line with an unknown keyword was found, or the value for a known keyword was not in the supported range of values.

System action

The program ends.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

Edit the **rfstab** file and correct the line containing the unknown keyword, or value that is out-of-range.

If the keyword specified in the message is *file:* followed by a file name, the file name does not have a valid length. The file name length is determined by adding the length of the file name specified in the **rfstab** file to the length of either the RFS data set prefix or the RFS data set name specified in the **devtab** file for this device. The length cannot exceed the maximum data set name length documented in *z/OS DFSMS Using Data Sets*.

IOEN00208I Rfstab entry "*keyword_val*" on line *line_num* is ignored by DFS.

Explanation

While reading and processing the rfstab file, a keyword was encountered that is valid for the NFS Server, but is not a supported keyword for the DFS File Server.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_warning

Administrator Response

No response is necessary. The keyword and value are ignored. DFS Server processing continues.

IOEN00209A	Devtab entry for ufs minor device <i>minor_dev</i> contains the incorrect value <i>value</i>.
-------------------	--

Explanation

While attaching a ufs file system, the incorrect value indicated in the message was found for this devtab entry.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

For additional information about the syntax of a devtab, see *z/OS Distributed File Service SMB Administration*. Correct the syntax of a devtab entry and then attempt to export the failed aggregate to the DFS namespace again.

IOEN00210A	Devtab entry for ufs minor device <i>minor_dev</i> has no attributes filename specified.
-------------------	---

Explanation

While attaching a ufs file system, the attrfile keyword was specified, without an Attributes filename.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

Either remove the attrfile keyword or specify an Attributes filename following the keyword.

IOEN00211A**Devtab entry for ufs minor device *minor_dev* attributes file *file* not found.****Explanation**

While attaching a ufs file system, the specified Attributes file was not found.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

Specify an Attributes file name that exists or remove the attrfile keyword and the filename following the keyword to allow:

- the attributes specified by the DFSKERN _IOE_RFS_ATTRIBUTES_FILE environment variable to be used if one has been specified. Otherwise,
- the DFS Server system default attributes will be used.

IOEN00212A**RFS translation set ON, binaries may not translate correctly.****Explanation**

Translation for RFS data was requested, however either there is not a 1-1 mapping between the current host code page and ISO8859-1, or an error was encountered while attempting to determine if there is a 1-1 mapping.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

Copying binary files between client machines and RFS may result in corruption and should be avoided.

IOEN00213A**DFSKERN: Error opening file *attrfile* - errno = *errno*.****Explanation**

The dfskern program cannot open the HFS Attributes file. This file is specified by the environment variable **_IOE_HFS_ATTRIBUTES_FILE** in the DFSKERN envvar file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Use the **errno** value to resolve the problem, then restart the DFS Server.

IOEN00214A **DFSKERN: The line '*attrfile_line*' is not valid in file *attrfile*.**

Explanation

The dfskern program encountered a line in the HFS Attributes file that is not in the correct format. This file is specified in the environment variable `_IOE_HFS_ATTRIBUTES_FILE` in the DFSKERN envar file. Possible causes for this problem are the line exceeded the maximum line length of 1024 or the line does not contain enough tokens. A minimum of 4 tokens are required.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the specified HFS Attributes file then restart the DSF Server. Additional information about the format of the HFS Attributes file is found in *z/OS Distributed File Service SMB Administration*.

IOEN00215A **DFSKERN: The suffix '*suffix*' in line number *line_number* is not valid in file *attrfile*.**

Explanation

The dfskern program encountered a specified suffix in the HFS Attributes file that is not in the correct format. This attributes file is specified in the environment variable `_IOE_HFS_ATTRIBUTES_FILE` in the DFSKERN envar file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the specified HFS Attributes file, then restart the DFS Server. Additional information about the format of the HFS Attributes file is found in *z/OS Distributed File Service SMB Administration*.

IOEN00216A **DFSKERN: The suffix '*suffix*' conflicts with the previous use in file *attrfile*.**

Explanation

The dfskern program encountered a suffix in the HFS Attributes file that conflicts with a previous use of the same suffix. The extension cannot be specified as both binary and EBCDIC. The HFS Attributes file is specified in the environment variable `_IOE_HFS_ATTRIBUTES_FILE` in the DFSKERN envvar file.

System action

The program ends.

Severity

`svc_c_sev_error`

Administrator Response

Correct the specified HFS Attributes file, and restart the DFS Server. Additional information about the format of the HFS Attributes file is found in *z/OS Distributed File Service SMB Administration*.

IOEN00217I DFSKERN: The suffix '*suffix*' in line number *line_num* in file *attrfile* is ignored.

Explanation

The dfskern program encountered an incorrect special suffix in the HFS Attributes file. This attributes file is specified in the environment variable `_IOE_HFS_ATTRIBUTES_FILE` in the DFSKERN envvar file.

System action

The program continues.

Severity

`svc_c_sev_notice`

Administrator Response

None.

IOEN00218I DFSKERN: Translation type could not be determined for an HFS file.

Explanation

The dfskern program was presented with a DFS-style file ID (FID), for an exported HFS file. The file format field has never been set for this file, and since the file name was not made available to the DFS Server, the translation setting remains unknown.

System action

The program continues.

Severity

`svc_c_sev_notice`

Administrator Response

None.

IOEN00219I**DFSKERN: Internal filesystem return code *errno* occurred. The reason code is *reason*.****Explanation**

An unexpected internal error occurred in the HFS filesystem.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

For a description of the error, consult *z/OS UNIX System Services Messages and Codes*.

IOEN00220A**DFS Glue initialization failed with return code *ReturnCode* and reason *ReasonCode*.****Explanation**

An error was encountered while attempting to initialize the DFS Glue module, IOEGLUE. The return code and reason code describe the reason for the failure.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

For a description of the error, consult *z/OS UNIX System Services Messages and Codes*. Determine the cause of the problem, correct it, and restart DFSKERN. If the problem persists, contact the service representative.

IOEN00221A**Devtab entry for ufs minor device *minor_dev* has no code page name specified.****Explanation**

While attaching a ufs file system, the codepage keyword was specified, without a code page name following it.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

Either remove the **codepage** keyword or specify a valid code page name following the keyword.

IOEN00222A **Devtab entry for ufs minor device *minor_dev* code page name *code_page_name* not supported.**

Explanation

While attaching a ufs file system, the specified code page name was found to be invalid.

System action

The program continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

Administrator Response

Specify a supported code page name or remove the codepage keyword and the code page name following the keyword. Otherwise the DFS Server default EBCDIC local code page will be used.

IOEN00223A **The local codepage configured on this system and the value specified for *_IOE_HFS_FILETAG* are incompatible.**

Explanation

The local codepage that is configured on this system contains a value that is incompatible with the value for *_IOE_HFS_FILETAG* and *_IOE_LFS_FILETAG*. When Native ASCII support is enabled (*_IOE_HFS_FILETAG*=QUERY or SET or *_IOE_LFS_FILETAG*=QUERY or SET) the local codepage must be IBM-1047. Or, if the local code page is configured to some value other than IBM-1047, Native ASCII support cannot be enabled (*_IOE_HFS_FILETAG* and *IOE_LFS_FILETAG* must be IGNORE or unspecified).

System action

The program ends.

Operator response

Use either Native ASCII support or a non-IBM-1047 local codepage, but not both.

Severity

svc_c_sev_error

Administrator Response

Either change your local codepage to IBM-1047, so that you can use the DFS Native ASCII support, or disable Native ASCII function by setting *_IOE_HFS_FILETAG*=IGNORE and *_IOE_LFS_FILETAG*=IGNORE in the envvar file for the Distributed File Service kernel (DFSKERN).

IOEN00224A **The specification for DFSKERN envars *_IOE_WIRE_CODEPAGE* and *_IOE_HFS_FILETAG* are incompatible.**

Administrator Response

Correct the devtab entry displayed and insure the devtab file contains only correct device definitions.

IOEN00302A **Missing device specification for minor device *minor_number*.**

Explanation

While attaching an LFS file system, the device definition was not found in the devtab file for the specified minor device number.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Verify that the a definition exists in the devtab file for the specified minor device number and that the minor device name in the dfstab file is specified correctly.

IOEN00303A **While opening minor device *minor_number*, could not open dataset *dataset_name*.**

Explanation

The device driver cannot open a linear dataset.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Verify that the definition for the minor device is correct, and that the named dataset exists and is accessible.

IOEN00304I **Loading dataset '*dataset_name*'.**

Explanation

The device driver encountered an unformatted linear dataset and is loading it.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00305I **Dataset '*dataset_name*' loaded successfully.**

Explanation

The device driver has finished loading the named linear dataset.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00306E An error occurred while loading dataset '*dataset_name*'.

Explanation

An error occurred while the device driver was loading the named linear dataset.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Verify that dataset exists and the application can write to it.

IOEN00307E LFS I/O error *errorcode* occurred for linear dataset *dataset_name*.

Explanation

An I/O error occurred to dataset *dataset_name*.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

If a real physical I/O error did not occur then contact your service representative.

IOEN00308E MMRE error *id=id cis=cis if=if of=of buf=buf RBA=RBA*.

Explanation

MMRE contents for an LFS I/O error.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

If a real physical I/O error did not occur then contact your service representative.

IOEN00401E *routinenot bind to registry site: pgoError.*

Explanation

A call to **sec_rgy_site_open** ended with a status other than **error_status_ok** resulting in no binding to a security server.

System action

The program ends abnormally.

User response

Verify that the security server is up and running and try the request again.

Severity

svc_c_sev_error

IOEN00407I *Signal Signal received, dump in progress.*

Explanation

DFS is abending and a dump is in progress.

System action

The program continues.

Severity

svc_c_sev_warning

IOEN00408I *DFS: PSW from Machine State: psw1 psw2 Abend Code from CIB: abend Reason Code from CIB: reason Load Module Name: module.*

Explanation

Abend information at time of dump.

System action

The program continues.

Severity

svc_c_sev_warning

IOEN00411I *DFSKERN: attached fileset fileset aggregate id aggrId fileset id <fIdhigh,,fIdlow>.*

Explanation

A DFS server dynamically attached a new filesystem successfully.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00412I DFSKERN: Unable to attach *filesystem* error *error* (*errorstring*) reason code *reason*.

Explanation

A DFS server failed to dynamically attach a new file system. This message may be preceded by other messages further explaining the error. The server continues, but remote users may not be able to cross local z/OS UNIX System Services mountpoints into the indicated file system. In the message text:

filesystem

Name of file system (z/OS UNIX System Service file system).

error

The z/OS UNIX System Service return code (Errnos).

errorstring

Error code string.

reason

For reason codes, see Appendix A, “Reason codes,” on page 387. For other reason codes, see *z/OS UNIX System Services Messages and Codes*.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Use the return code, the reason code and any previous messages to determine the action required to correct the error.

IOEN00413I DFSKERN: detached fileset *fileset* aggregate id *aggrId* fileset id *<fIdhigh,,fIdlow>*.

Explanation

A DFS server is dynamically detaching a filesystem that is not currently being accessed by remote users. This is done to allow administrators the ability to unmount that filesystem without using the IMMEDIATE or FORCE options.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00414I DFSKERN: unexported fileset *fileset* aggregate id *aggrId* fileset id *<fIdhigh,,fIdlow>*

Explanation

A DFS server is dynamically unexported a filesystem that is not currently being accessed by remote users. This is done to allow administrators the ability to unmount that filesystem without using the IMMEDIATE or FORCE options.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00415I DFSKERN: exported fileset *fileset* aggregate id *aggrId* fileset id *<fIdhigh,,fIdlow>*.

Explanation

A DFS server dynamically exported a locally mounted z/OS UNIX file system to allow remote users to cross mount points.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00416I DFSKERN: error *error* reason *reason* exporting fileset *fileset* aggregate id *aggrId* fileset id *<fIdhigh,,fIdlow>*

Explanation

A DFS server attempted to dynamically export a locally mounted z/OS UNIX file system to allow remote users to cross local mount points, but the export failed. The error code and reason code are described in [z/OS UNIX System Services Messages and Codes](#). Remote users may not be able to cross into the file system specified.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00417I DFSKERN: error *error* reason *reason* unexporting fileset *fileset* aggregate id *aggrId* fileset id *<fIdhigh,,fIdlow>*.

Explanation

A DFS server is dynamically unexported a filesystem that is not currently being accessed by remote users. This is done to allow administrators the ability to unmount that filesystem without using the IMMEDIATE or FORCE options. An unmount of the file system may require the IMMEDIATE or FORCE options.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00418I DFSKERN: error parsing line *lineno* after character *character* in DFS mounts file.

Explanation

A DFS server was requested to dynamically MOUNT filesystems into the z/OS UNIX file tree at startup. An error was found after character *character* on line *lineno* in the file. Each line in the file must specify a MOUNT command and must follow the TSO MOUNT command syntax. This line is ignored in the file.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Correct the line in error.

IOEN00419I DFSKERN: error *error reason reason* occurred when mounting filesystem *filesysname*.

Explanation

A DFS server was requested to dynamically MOUNT filesystems into the z/OS UNIX file tree at startup. An attempt was made to MOUNT the indicated filesystem but error *error* was received. The error is a z/OS UNIX error code.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

If the problem was due to an incorrect entry in the DFS mounts file, then correct that line.

IOEN00420I DFSKERN: filesystem *filesysname* mounted on path *mountpath*.

Explanation

A DFS server was requested to dynamically MOUNT filesystems into the z/OS UNIX file tree at startup. The filesystem indicated by *filesystemname* was successfully mounted.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00421I DFSKERN: filesystem *filesystemname* unmounted.

Explanation

A DFS server has performed an unmount of a DFSS filesystem due to aggregate detach or shutdown processing.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00422I DFSKERN: error *errorCode* unmounting filesystem *filesystem* reason *reasonCode*.

Explanation

A DFS server has performed an unmount of a DFSS filesystem due to aggregate detach or shutdown processing but an error occurred. The error code and reason are z/OS UNIX return and reason codes.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00424I Unauthenticated users will be granted unlimited access.

Explanation

The **_IOE_MVS_DFSDFLT** environment variable was assigned a user ID which has a uid of 0. Since all unauthenticated users are mapped to that user ID, those users will have the unlimited access of a super user.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

If a different access is desired for unauthenticated users, then change the `_IOE_MVS_DFSDFLT` environment variable and restart the server.

IOEN00425E

DFSKERN could not retrieve credentials for the *Userid* userid.

Explanation

DFSKERN was unable to retrieve credentials for the user ID specified for the `_IOE_MVS_DFSDFLT` environment variable.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

Check to see if that user ID is defined to your security product by logging onto your system as that user ID or querying the security product using established procedures for that product.

IOEN00426I

Unauthenticated users will not be allowed access.

Explanation

The `_IOE_MVS_DFSDFLT` environment variable was either not included in the `envar` file, or it was included but the server encountered an error while trying to process the variable.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

If you would like unauthenticated users to have guest or anonymous access, then change the `_IOE_MVS_DFSDFLT` environment variable and restart the server.

IOEN00427E

DFSKERN: error *errorCode* acquiring ownership of filesystem *filesystem* reason *reasonCode*.

Explanation

A DFS server has performed a change mount of an HFS filesystem to change ownership from another machine in the sysplex to this one. An error occurred. The error code and reason are z/OS UNIX return and reason codes, and can be found in *z/OS UNIX System Services Messages and Codes*.

System action

The program continues. The filesystem will not be exported.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and retry the export of the filesystem.

IOEN00438I

DFSKERN: RFS ENF listener is initializing.

Explanation

DFSKERN is exporting an RFS dataset so it is initializing its facility to listen for ENF events which represent allocation contention on datasets in the system. If a batch job is waiting for an allocation on a dataset which DFSKERN is exporting, DFSKERN will get control and will free the dataset so the batch job can obtain the allocation. A system ABEND occurred during the processing of an access method service called to satisfy an RFS file operation. The ABEND has been caught by the RFS recovery code in dfskern and prevented an ABEND in the dfskern process. SMB server operation now continues normally.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEN00439I

DFSKERN: RFS ENF listener is terminating.

Explanation

DFSKERN is detaching its last RFS dataset so it is terminating its facility to listen for ENF events which represent allocation contention on datasets in the system. Since DFSKERN is no longer exporting any RFS datasets, it does not need to be notified of any allocation contentions in the system.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEN00440I

DFSKERN: RFS ENF listener is disabled.

Explanation

DFSKERN has been asked not to initialize its facility to listen for ENF events which represent allocation contention on datasets in the system. If a batch job is waiting for an allocation on a dataset which DFSKERN is exporting, DFSKERN will not get control and will not free the dataset so the batch job cannot obtain the allocation. If you want the RFS ENF processor to initialize when DFSKERN exports an RFS dataset, then you must remove the `_IOE_RFS_ENF_LISTENER=OFF` statement from your dfskern envvar file.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEN00441I DFSKERN: variable *varname* is set to *varvalue*.

Explanation

DFSKERN is using the specified value for the environment variable. The value is either the value read from the envar file or the default value if the value in the envar file is incorrect or missing. In the message text:

varname

Name of the variable.

varvalue

Name of the value.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEN00505A *Program: Library is not APF authorized.*

Explanation

The load module library where the Distributed File Service SMB server code is installed must be APF authorized. In the message text:

Program

Name of the failing program.

System action

The program ends.

Severity

svc_c_sev_fatal

Administrator Response

Make sure the data set that contains the DFS/SMB modules is included in the system APF list.

IOEN00506I *ThisProgram: Trace table size must be in the range of 4M to 256M.*

Explanation

The trace table size is invalid. In the message text:

ThisProgram

Name of the program.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the syntax of the `_IOE_SMB_TRACE_TABLE_SIZE` environment variable or the `TRACE,TSIZE` command is in *z/OS Distributed File Service SMB Administration*. Verify that the environment variable or the command was entered with a valid size parameter. If the problem continues, contact the service representative.

IOEN00507I

ThisProgram: The current internal trace table is retained.

Explanation

The dynamic trace table request specified an invalid size. The current trace table will remain in effect. In the message text:

ThisProgram

Name of the program.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

The size specified on the `TRACE,TSIZE send` command was not in the valid range of 4M to 256M. Please enter the command again specifying a valid size.

IOEN00508I

ThisProgram: Default internal trace table size of 64M will be used.

Explanation

The trace table size is invalid. In the message text:

ThisProgram

Name of the program.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

The value of the `_IOE_SMB_TRACE_TABLE_SIZE` envvar was not in the valid range of 4M to 256M. The default value of 64M will be used for the internal trace table.

IOEN00509A

ThisProgram: No memory available for new trace table. Current table is retained.

Explanation

The system does not have enough memory available to satisfy the request. The current internal trace table remains in effect. In the message text:

ThisProgram

Name of the program.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

Try the command at a later time, or specify a smaller trace table size and try again.

IOEN00510A

ThisProgram: No memory available for internal trace table. Server is shutting down.

Explanation

There is not enough memory available in the system to satisfy the request. Please specify a smaller size in the `_IOE_SMB_TRACE_TABLE_SIZE` envvar and restart the SMB server. In the message text:

ThisProgram

Name of the program.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Additional information about the syntax of the `_IOE_SMB_TRACE_TABLE_SIZE` environment variable is in *z/OS Distributed File Service SMB Administration*. If the problem continues, contact the service representative.

IOEN00511I

ThisProgram: Trace table header thead table size tsize table start tstart table end tend.

Explanation

The output of the `TRACE,QTAB` command displays information about the current internal trace table. In the message text:

ThisProgram

Name of the program.

thead

Table header address in hex.

tstart

Table start address in hex.

tend

Table end address in hex.

tsize

Size of the table in megabytes.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional details about the information displayed by the TRACE,QTAB send command is in *z/OS Distributed File Service SMB Administration*. If the problem continues, contact the service representative.

IOEN00512I

Program: Printing of the internal trace table is in progress.

Explanation

The send command can not be completed, at this time. In the message text:

Program

Name of the program.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

The internal trace table is being formatted and printed by a prior send command. This operation must be allowed to complete before the request to resize the table can be processed. Wait for a while, then issue the send command again. If this problem continues, contact the service representative.

IOEN00514A

ThisProgram: Not permitted to BPX.DAEMON.

Explanation

READ authority to BPX.DAEMON required. Terminating. In the message text:

ThisProgram

Name of the program.

System action

The program ends.

Severity

svc_c_sev_fatal

Administrator Response

Permit the user ID that is identified by the accompanying ICH408I message to BPX.DAEMON, and then restart the server. See message ICH408I in [z/OS Security Server RACF Messages and Codes](#) for more information. .

IOEN00515I

**The DFS/SMB Server is running with DFSKERN envar
_IOE_PROTOCOL_RPC=ON which is no longer supported**

Explanation

IBM has withdrawn support for the z/OS Distributed File Service support that utilizes the Distributed Computing Environment (DCE) architecture. The DFSKERN envar _IOE_PROTOCOL_RPC=ON indicates that DCE/DFS is configured to start.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

The envar _IOE_PROTOCOL_RPC will be ignored and DFS will start, but the envar should be removed from the DFSKERN envar file found at /opt/dfslocal/home/dfskern/envar.

Chapter 5. IOEPnnnnnt: DFS kernel (dfskern) and general DFS error messages

This topic contains the messages that identify DFS kernel (dfskern) and general DFS errors.

IOEP00001A

DFS DLL cannot initialize. Reason code: *return_code*.

Explanation

The DFS dynamic link library (DLL) cannot initialize. The reason for the failure is provided in the reason code *return_code*. This error should not occur during normal processing. A C library error message may follow this message. The reason codes are:

- 8** Cannot retrieve information about special characters from the current locale.
- 0C** Cannot initialize crypt mutex.
- 10** Cannot create the mutex attribute object for the non-portable functions.
- 14** Cannot set the mutex attribute object for the non-portable functions to be recursive.
- 18** Cannot initialize the global lock mutex.
- 1C** Cannot initialize the sigtocalcancel mutex.
- 20** Cannot initialize MVSpause.
- 24** Cannot initialize signal table mutex.
- 28** Cannot register signal handler for SIGILL.
- 2C** Cannot register signal handler for SIGFPE.
- 30** Cannot register signal handler for SIGSEGV.
- 34** Cannot register signal handler for SIGPIPE.
- 38** Cannot register signal handler for SIGABND.
- 3C** Cannot create the default thread attribute object.
- 40** Cannot set the detach state of the default thread attribute object.
- 44** Cannot set the weight of the default thread attribute object.
- 48** Cannot create the default mutex attribute object.
- 4C** Cannot create the default condition variable attribute object.

- 50** Cannot set the home directory to the directory specified by the `_EUV_HOME` environment variable.
- 54** The environment variable file contains an entry that exceeds the maximum length (`_POSIX_ARG_MAX`).
- 58** Cannot set an environment variable contained in the environment variable file.
- 5C** Cannot initialize cuserid mutex.
- 60** Cannot retrieve a home level name/token pair.
- 64** Cannot initialize shared memory spa.
- 68** Cannot initialize semaphore spa.
- 6C** The environment variable file contains an entry with incorrect syntax.
- 70** Cannot retrieve current code set.
- 74** Cannot allocate code conversion descriptor.
- 78** Cannot allocate storage for a serviceability control block.
- 7C** Cannot initialize a serviceability mutex.
- 80** Cannot retrieve a primary level name/token pair.
- 84** Cannot register a signal handler.
- 88** Cannot allocate storage for a DLL control block.
- 8C** Cannot fetch the DLL load module. Common causes for this error are:
- The OMVS HOME directory has not been correctly specified to RACF® or to another external security manager (ESM).
 - The directory has not been correctly created in HFS.
- 90** An internal DLL control block is corrupted.
- 94** Cannot allocate storage for a DLL internal structure.
- 98** Cannot allocate storage for a DLL control block.
- 9C** An internal serviceability control block is corrupted.
- A0** Cannot create a thread.
- A4** Cannot open the file specified by the `_EUV_ENVAR_FILE` environment variable.
- A8** Cannot register signal handler for SIGTRAP.

AC

Cannot create the DFS mutex attribute object.

B0

Cannot set the kind attribute of the DFS mutex attribute object.

B4

Cannot create the DFS condition variable attribute object.

B8

Cannot set the kind attribute of the DFS condition variable attribute object.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Ensure that the z/OS Language Environment® run-time option POSIX(ON) is specified and try the operation again. Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_fatal

IOEP0002A

DFS DLL cannot end. Reason code: *return_code*.

Explanation

The DFS dynamic link library (DLL) cannot end properly. The reason for the failure is provided in the reason code *return_code*. This error should not occur during normal processing. A C library error message may follow this message. The reason codes are:

08

An internal DLL control block is corrupted.

0C

A call to the function rlse() fails.

10

An internal DLL control block is corrupted.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Ensure that the z/OS Language Environment run-time option POSIX(ON) is specified and try the operation again. Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_fatal

IOEP01000A DFS kernel cannot create system anchor. System return code: *return_code*.

Explanation

The Distributed File Service kernel cannot create a primary level name or token pair. The value *return_code* is returned from the **ieantcr()** callable service. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01001A DFS kernel cannot initialize condition variable. *error_text*

Explanation

The Distributed File Service kernel cannot initialize a condition variable. Additional information about the error is given by the C library *error_text*, which is returned from the **pthread_cond_init()** function. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01100I DFS daemon *daemon_name* has stopped.

Explanation

The specified DFS daemon has stopped. This message is issued when the daemon is stopped by the **STOP** command, or if the daemon stops unexpectedly. If the daemon stops unexpectedly, the Distributed File Service kernel attempts to start it again.

System action

The program continues.

Severity

svc_c_sev_notice

IOEP01101I DFS daemon *daemon_name* status is *status_string* and process ID is *daemon_pid*.

Explanation

This message is issued when a daemon is queried using the **QUERY** command. The system returns one of the following status values:

DOWN

The daemon is not running.

STOPPING

The Distributed File Service kernel is attempting to end the daemon.

INITIALIZING

The daemon is running but has not completed initialization.

READY

The daemon is running, initialized, and ready to receive requests.

UNKNOWN

The daemon started, but the Distributed File Service kernel cannot determine if the daemon has completed initialization.

System action

The program continues.

Severity

svc_c_sev_notice

IOEP01102I DFS kernel is attempting to start daemon *daemon_name*.

Explanation

The Distributed File Service kernel detects the unexpected termination of the daemon and is attempting to automatically start it.

System action

The program attempts to automatically start the daemon.

Severity

svc_c_sev_notice

IOEP01103I DFS kernel initialization complete.

Explanation

The Distributed File Service kernel successfully completed initialization.

System action

The program continues.

Severity

svc_c_sev_notice

IOEP01104I DFS kernel has received STOP command.

Explanation

The Distributed File Service kernel received the **STOP** command.

System action

The Distributed File Service kernel ends all DFS daemons and terminates.

Severity

svc_c_sev_notice

IOEP01105I DFS kernel detects missing parameters for MODIFY command.

Explanation

The Distributed File Service kernel receives a **MODIFY** command that is missing required parameters. As the result, the Distributed File Service kernel ignores the command. *z/OS Distributed File Service SMB Administration* contains additional information about the **MODIFY** command and associated options.

System action

The Distributed File Service kernel ignores the command and continues.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_warning

IOEP01106E MODIFY command syntax is too long.

Explanation

The **MODIFY** command directed to the Distributed File Service kernel contains syntax that is longer than the maximum length permitted. *z/OS Distributed File Service SMB Administration* contains additional information about the **MODIFY** command and associated options.

System action

The Distributed File Service kernel ignores the command and continues.

Operator response

Do one of the following, then try the request again:

- Ensure the command syntax is correct.
- Use abbreviations for command parameters to reduce the length of the command syntax.

Severity

svc_c_sev_warning

IOEP01107A DFS kernel detects internal error. *parameter_name: value.*

Explanation

A call to an internal Distributed File Service kernel routine specifies a parameter value that is not valid. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01108A DFS kernel cannot retrieve **MODIFY** command data.

Explanation

The Distributed File Service kernel encounters a severe error while attempting to retrieve the **MODIFY** command data from the communications area.

System action

The program continues with reduced function. **MODIFY** commands are no longer processed.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

IOEP01113A**Daemon name *daemon_name* specified for *command_name* command is not valid.****Explanation**

The daemon name parameter supplied on the MODIFY command is not valid. *z/OS Distributed File Service SMB Administration* contains additional information about the MODIFY command and associated options.

System action

The request fails.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

IOEP01114A**Status parameter required for *command_name* command.****Explanation**

The MODIFY command does not specify the required status parameter. *z/OS Distributed File Service SMB Administration* contains additional information about the MODIFY command and associated options.

System action

The request fails.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

IOEP01115A**Status *daemon_status*, specified for *command_name* command is not valid.****Explanation**

The status parameter specified for the MODIFY command is not valid. *z/OS Distributed File Service SMB Administration* contains additional information about the MODIFY command and its associated options.

System action

The request fails.

Operator response

Ensure that the command syntax is correct, then try the request again.

Severity

svc_c_sev_error

IOEP01116A**User *user_ID* is not authorized to issue *command_name* command.****Explanation**

The user does not have the required authority to issue the specified command.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Determine if the user should be authorized to use the command. Information about authorizing users for DFS commands is found in *z/OS Distributed File Service SMB Administration*.

IOEP01117A**DFS kernel cannot determine user ID of requester. *error_text*.****Explanation**

A user has requested an operation that requires authorization. The Distributed File Service kernel is not able to determine the user ID of the requester in order to verify if the requester has the correct authority. In most cases, the reasons for the failure are:

- The user ID of the requester is not defined in the Security registry.
- An internal error occurs while retrieving the user ID.

Additional information about the error is given by the C library *error_text*, which is returned from the `get_CallersId()` function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Do the following:

- Ensure that the user ID of the requester is defined in the Security registry, then try the request again.
- Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative.

Additional information about dumps is found in *z/OS Language Environment Debugging Guide*.

Severity

svc_c_sev_error

IOEP01118A**START command cannot start daemon *daemon_name* because it is not configured.**

Explanation

The **START** command cannot start the specified daemon because it is not configured.

System action

The program continues.

Operator response

Do the following, then try the request again:

- Ensure that the command syntax is correct.
- Ensure that the daemon specified is the daemon actually intended for starting.

Severity

svc_c_sev_error

Administrator Response

If the daemon specified is the daemon actually intended for starting then run the DFS configuration program to configure the daemon.

IOEP01119A **Daemon *daemon* cannot be started because it has status of *daemon_status*.**

Explanation

The daemon has a status other than DOWN. A START request is only honored if the daemon has a status of DOWN. If the status is READY, the daemon is already running.

System action

The program continues.

Operator response

Do the following, then try the request again:

- Ensure that the daemon specified is the one actually intended for starting.
- If the status is either INITIALIZING or STOPPING, then wait for the status to change to READY or DOWN.
- If the status is UNKNOWN, contact the DFS administrator.

Severity

svc_c_sev_error

Administrator Response

Additional information about corrective actions is found in *z/OS Distributed File Service SMB Administration*.

IOEP01120A **Daemon *daemon* cannot be stopped because it has status of *daemon_status*.**

Explanation

The daemon has a status other than UNKNOWN or READY. A stop request is only honoured if the daemon has a status of UNKNOWN or READY. If the daemon status is DOWN, the daemon is already stopped.

System action

The program continues.

Operator response

Do the following, then try the request again:

- Ensure that the daemon specified is the one actually intended for stopping.
- If the status is either INITIALIZING or STOPPING, then wait for the status to change to READY, DOWN, or UNKNOWN.

Severity

svc_c_sev_error

IOEP01121A

Daemon *daemon_name* initialization not complete.

Explanation

The Distributed File Service kernel attempts to start a daemon, but the daemon does not report that initialization is complete.

System action

The Distributed File Service kernel sets the status of the daemon to UNKNOWN and continues.

Operator response

Do the following:

- Query the status of the daemon using the QUERY command.
- If the daemon has a process ID other than zero, then do the following:
 - Issue a STOP command for the daemon.
 - Wait for a message indicating that the daemon has stopped.
 - Try the START command again.
- If the process ID is zero, try the START command again.
- Check the console log for any messages, probes, or dumps that occur prior to this message, and notify the system programmer.

System programmer response

Use the diagnostic data collected by the operator to determine the probable cause of the failure. If the problem continues, contact the service representative.

Severity

svc_c_sev_error

IOEP01122I

DFS kernel will stop CDS advertiser then start CDS advertiser and CDS clerk.

Explanation

The Distributed File Service kernel detects unexpected termination of the CDS clerk.

System action

The Distributed File Service kernel first attempts to end the CDS advertiser. If the CDS advertiser is active and can be successfully ended by the Distributed File Service kernel, then it will start the CDS advertiser and then start the CDS clerk.

Severity

svc_c_sev_notice

IOEP01123A

DFS kernel cannot start daemon *daemon_name* because the daemon did not remain active through the restart time limit.

Explanation

The Distributed File Service kernel cannot automatically start the daemon *daemon_name* because the previous instance of the daemon did not run long enough to demonstrate the stability of the next instance.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in *z/OS Language Environment Debugging Guide*.

Severity

svc_c_sev_error

IOEP01124A

No entry exists for daemon *daemon_name* in daemon configuration file.

Explanation

The DFS daemon configuration file does not contain an entry for the daemon *daemon_name*.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Do the following:

- Ensure that the specified entry was not removed from the DFS daemon configuration file.
- Ensure that all daemon names are spelled correctly.

Additional information about valid syntax for the DFS daemon configuration file is found in *z/OS Distributed File Service SMB Administration*.

IOEP01125A

DFS kernel detects unknown daemon name *daemon_name* in DFS daemon configuration file.

Explanation

The DFS daemon configuration file contains a daemon name that is not known to the Distributed File Service kernel.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Do the following:

- Examine the entry in the DFS daemon configuration file that contains the specified daemon name.
- Ensure that all daemon names are spelled correctly.
- Ensure that no other syntax errors exist in the file.

Additional information about valid syntax for the DFS daemon configuration file is found in *z/OS Distributed File Service SMB Administration*.

IOEP01126A

Entry is missing parameter *parameter_name* in DFS daemon configuration file.

Explanation

The Distributed File Service kernel encounters an entry in the DFS daemon configuration file that is missing the specified parameter.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Do the following:

- Examine the entry in the DFS daemon configuration file and ensure that all entries contain the parameter.
- Ensure that the parameter is spelled correctly and that the value is valid.
- Ensure that no other syntax errors exist in the file.

Additional information about valid syntax for the DFS daemon configuration file is found in *z/OS Distributed File Service SMB Administration*.

IOEP01127A

DFS kernel detects error in value *value_string* in DFS daemon configuration file.

Explanation

The Distributed File Service kernel encounters an error in a parameter in the DFS daemon configuration file. Either the parameter or the value specified in the error message is not valid.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Do the following:

- Examine the entry in the DFS daemon configuration file and ensure that the value contains valid characters.
- Ensure that no other syntax errors exist in the file.

Additional information about valid syntax for the DFS daemon configuration file is found in *z/OS Distributed File Service SMB Administration*.

IOEP01128A DFS kernel detects missing quotation mark in value *parameter_value* in DFS daemon configuration file.

Explanation

A close quotation mark is missing from an entry in the DFS daemon configuration file.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Examine the entry in the DFS daemon configuration file and ensure that all quotation characters are matched. Additional information about valid syntax for the DFS daemon configuration file is found in *z/OS Distributed File Service SMB Administration*.

IOEP01129A DFS kernel cannot create child process. System return code: *return_code-reason_code*.

Explanation

The Distributed File Service kernel fails to create a child process. This error occurs when a START command is processing or when an automatic start attempt is made for a daemon.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01130A

DFS kernel cannot end process *process_id*. *error_text*.

Explanation

The Distributed File Service kernel fails to end a child process. This error occurs when a STOP command is processing. The error indicates that the process ID is not valid. Additional information about the error is given by the C library *error_text*, which is returned from the kill() function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01131A

DFS kernel cannot determine process ID for daemon *daemon_name*.

Explanation

The Distributed File Service kernel has no record of a process ID for the specified daemon.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01132A

DFS kernel cannot create local socket. *error_text*.

Explanation

The Distributed File Service kernel attempts to create a local socket, but the z/OS UNIX kernel returns an error. Additional information about the error is given by the C library *error_text*, which is returned from the socket() function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01133A

DFS kernel cannot bind to local socket. *error_text*.

Explanation

The Distributed File Service kernel attempts to bind to a local socket, but the z/OS UNIX kernel returns an error. Additional information about the error is given by the C library *error_text*, which is returned from the bind() function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01134A

DFS kernel cannot listen on local socket. *error_text*.

Explanation

The Distributed File Service kernel attempts to listen on a local socket, but the z/OS UNIX kernel returns an error. Additional information about the error is given by the C library *error_text*, which is returned from the `listen()` function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01135A

DFS kernel cannot accept local socket request. *error_text*.

Explanation

The Distributed File Service kernel attempts to accept a request on a local socket, but the z/OS UNIX kernel returns an error. Additional information about the error is given by the C library *error_text*, which is returned from the `accept()` function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01136A

DFS kernel cannot write to local socket. *error_text*.

Explanation

The Distributed File Service kernel attempts to write to a local socket, but the z/OS UNIX kernel returns an error. Additional information about the error is given by the C library *error_text*, which is returned from the `write()` function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01137A**DFS kernel cannot read from local socket. *error_text*.**

Explanation

The Distributed File Service kernel attempts to read from a local socket, but the z/OS UNIX kernel returns an error. Additional information about the error is given by the C library *error_text*, which is returned from the read() function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01138A**DFS kernel cannot open the file *file_name*.**

Explanation

The Distributed File Service kernel cannot open the file *file_name*. This error occurs when a START command is processing or when an automatic start attempt is made for a daemon.

System action

The program continues. The START request fails.

Operator response

Collect the probe information and notify the system programmer.

System programmer response

Do the following:

- Ensure that there is a valid DD statement for the file in the Distributed File Service kernel PROC.
- Ensure that the Distributed File Service kernel has READ authority for the file.
- Ensure that the file exists and is not allocated by any other process.

If the problem continues, contact the service representative.

Severity

svc_c_sev_error

IOEP01139A

DFS kernel detects file error for file *file_name*.

Explanation

The Distributed File Service kernel detects a file error for the file *file_name*. This error occurs when a **START** command is processing or when an automatic start attempt is made for a daemon.

System action

The program continues. The START request fails.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Do the following:

- Ensure that the file is not empty.
- Ensure that the file contents are not corrupted.
- Use the dump to help determine the probable cause of the failure.

If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [*z/OS Language Environment Debugging Guide*](#).

Severity

svc_c_sev_error

IOEP01140A

DFS kernel cannot allocate memory.

Explanation

The Distributed File Service kernel is not able to allocate memory. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Increase region size for the Distributed File Service kernel and try the operation again. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01141A DFS kernel cannot lock mutex. *error_text*.

Explanation

The Distributed File Service kernel cannot lock a mutex. Additional information about the error is given by the C library *error_text*, which is returned from the **pthread_mutex_lock()** function. This error should not occur during normal processing.

System action

The program continues with reduced function.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01142A DFS kernel cannot unlock mutex. *error_text*

Explanation

The Distributed File Service kernel cannot unlock a mutex. Additional information about the error is given by the C library *error_text*, which is returned from the **pthread_mutex_unlock()** function. This error should not occur during normal processing.

System action

The program continues with reduced function.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01143E

DFS kernel cannot create thread. *error_text*

Explanation

The Distributed File Service kernel is not able to create a thread. Additional information about the error is given by the C library *error_text*, which is returned from the `pthread_create()` function. The most likely reason for the failure is that the system limit for the maximum number of threads for each process is exceeded. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Do one of the following:

- Wait for at least one request in progress to complete, then try the request again.
- Ensure that the `MAXTHREADTASKS` and `MAXTHREADS` values in the z/OS parmlib member are set to sufficient levels to accommodate the system load. To accommodate the requirements of the Distributed File Service kernel, the minimum recommended value for both `MAXTHREADTASKS` and `MAXTHREADS` is 500.

If the problem continues, contact the service representative.

Severity

svc_c_sev_error

IOEP01144E

DFS kernel cannot detach thread. *error_text*

Explanation

The Distributed File Service kernel is not able to detach a thread. Additional information about the error is given by the C library *error_text*, which is returned from the `pthread_detach()` function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01145E

DFS kernel cannot join to thread. *error_text*

Explanation

The Distributed File Service kernel is not able to join to a thread. Additional information about the error is given by the C library *error_text*, which is returned from the `pthread_join()` function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01146A

DFS kernel cannot start all DFS daemons.

Explanation

The Distributed File Service kernel cannot start all of the DFS daemons because an error occurs during initialization of one of the daemons.

System action

The program continues.

Operator response

Check the console log for any messages, probes, or dumps that occur prior to this message, and notify the system programmer.

System programmer response

Use the diagnostic data collected by the operator to determine the probable cause of the failure. If the problem continues, contact the service representative.

Severity

svc_c_sev_error

IOEP01147A

DFS kernel cannot obtain status of DFS daemon. *error_text*.

Explanation

The Distributed File Service kernel is not able to determine the status of a DFS daemon. Additional information about the error is given by the C library *error_text*, which is returned from the `waitpid()` function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01148A

DFS kernel cannot retrieve signal. *error_text*.

Explanation

The Distributed File Service kernel is not able to retrieve a signal from the pending signals queue. Additional information about the error is given by the C library *error_text*, which is returned from the `sigwait()` function. This error should not occur during normal processing.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01149A

DFS kernel detects exception. The *request_name* request fails.

Explanation

The Distributed File Service kernel detects an exception while processing a request. This request cannot complete, but no services are terminated.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01150A DFS kernel detects exception and is ending *service_name* service.

Explanation

The Distributed File Service kernel detects an exception. The specified service is no longer available.

System action

The program continues with reduced function. The specified service ends.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If you do not wish the Distributed File Service kernel to continue without the specified service, then cancel the Distributed File Service kernel and start it again. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01151A DFS kernel cannot anchor control block. System return code: *return_code*.

Explanation

The Distributed File Service kernel is not able to anchor a control block.

System action

The program ends.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_fatal

IOEP01152A DFS kernel cannot create required thread.

Explanation

The Distributed File Service kernel is not able to create a required thread. The most likely reason for the failure is that the system limit for the maximum number of threads for each process has been reached.

System action

The program ends.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Ensure that the MAXTHREADTASKS and MAXTHREADS values in the z/OS parmlib member are set to sufficient levels to accommodate the system load. To accommodate the requirements of the Distributed File Service kernel, the minimum recommended value for both MAXTHREADTASKS and MAXTHREADS is 500. If the problem continues, contact the service representative.

Severity

svc_c_sev_fatal

IOEP01153A DFS kernel cannot initialize mutex. error_text

Explanation

The Distributed File Service kernel cannot initialize a mutex. Additional information about the error is given by the C library *error_text*, which is returned from the **pthread_mutex_init()** function. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_fatal

IOEP01154A

DFS kernel cannot block signals. *error_text*

Explanation

The Distributed File Service kernel is not able to block signals. Additional information about the error is given by the C library *error_text*, which is returned from the **sigprocmask()** function. This error should not occur during normal processing.

System action

The program ends.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_fatal

IOEP01155A

DFS kernel cannot initialize MODIFY command queue.

Explanation

Distributed File Service kernel initialization of the **MODIFY** command queue is not successful.

System action

The program continues with reduced function. The **MODIFY** command service is not available.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_fatal

IOEP01156A

DFS kernel detects an exception and is ending DFS.

Explanation

The Distributed File Service kernel detects an exception. DFS is not able to continue operations.

System action

The program ends.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01160A**DFS kernel initialization failure.**

Explanation

The Distributed File Service kernel fails to initialize.

System action

The program ends.

Operator response

Do the following:

- Check for previous messages that indicate the reason for the failure.
- If the problem can be corrected, start the Distributed File Service kernel again.
- If the problem persists, collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01161A**DFS kernel cannot allocate storage during IPC initialization.**

Explanation

The operating system cannot allocate storage for the Distributed File Service kernel during inter-process communication (IPC) initialization. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Increase region size for the Distributed File Service kernel and try the operation again. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01162A	DFS kernel cannot retrieve system anchor. System return code: <i>return_code</i>.
-------------------	--

Explanation

The Distributed File Service kernel cannot retrieve a primary level name or token pair. The value *return_code* is returned from the **ieantrt()** callable service. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about the system return code is found in [z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN](#). Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01164A	DFS kernel cannot retrieve system anchor. System return code: <i>return_code</i>.
-------------------	--

Explanation

The Distributed File Service kernel cannot retrieve a system level name/token pair. The value *return_code* is returned from the **ieantrt()** callable service. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about the system return code is found in [z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN](#). Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_fatal

IOEP01165A DFS kernel cannot delete system anchor. System return code: *return_code*.

Explanation

The Distributed File Service kernel cannot delete a system level name/token pair. The value *return_code* is returned from the **ieantdl()** callable service. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative.

Additional information about the system return code is found in [z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN](#). Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_fatal

IOEP01166A DFS kernel cannot create system anchor. System return code: *return_code*.

Explanation

The Distributed File Service kernel cannot create a system level name/token pair. The value *return_code* is returned from the **ieantcr()** callable service. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative.

Additional information about the system return code is found in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*. Additional information about dumps is found in *z/OS Language Environment Debugging Guide*.

Severity

svc_c_sev_fatal

IOEP01167A DFS Kernel cannot allocate storage. System return code: *return_code*.

Explanation

The operating system cannot allocate storage for the Distributed File Service kernel. The value *return_code* is returned from the **STORAGE** macro. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Increase region size for the Distributed File Service kernel and try the operation again. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in *z/OS Language Environment Debugging Guide*.

Severity

svc_c_sev_fatal

IOEP01168A DFS Kernel cannot release storage. System return code: *return_code*.

Explanation

The operating system cannot release storage for the Distributed File Service kernel. The value *return_code* is returned from the **STORAGE** macro. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative.

Additional information about the system return code is found in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*. Additional information about dumps is found in *z/OS Language Environment Debugging Guide*.

Severity

svc_c_sev_fatal

IOEP01169A

DFS Kernel cannot establish recovery routine. System return code: *return_code*.

Explanation

The Distributed File Service kernel cannot establish a recovery routine. The value *return_code* is returned from the **ESATEX** macro. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about the system return code is found in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*. Additional information about dumps is found in *z/OS Language Environment Debugging Guide*.

Severity

svc_c_sev_fatal

IOEP01170A

DFS Kernel vector initialization cannot initialize component *component*.

Explanation

The Distributed File Service kernel cannot initialize the component *component* during vector initialization. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in *z/OS Language Environment Debugging Guide*.

Severity

svc_c_sev_fatal

IOEP01171A

DFS kernel cannot determine user authorization.

Explanation

The user issued a command that requires an authorization checking. The authorization check encounters a warning condition. In most cases, the reasons for the failure are:

- The DFS start request resource is not defined in your Security product.
- The Security product is not active.
- The FACILITY class is not defined in your Security product.
- The FACILITY class is not active.

System action

The program continues.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Do the following:

- Ensure that your Security product is installed and active.
- Ensure that the FACILITY class is defined in your Security product and active.

If the problem continues, contact the service representative.

Severity

svc_c_sev_error

IOEP01172A

DFS kernel cannot access file containing ethernet address.

Explanation

The Distributed File Service kernel cannot read the file `/opt/dcelocal/etc/ether_addr`. This error should not occur during normal processing. In most cases, the reasons for the failure are:

- The file does not exist.
- The Distributed File Service kernel does not have the required permission to read the file.

System action

The program ends abnormally.

Severity

svc_c_sev_fatal

Administrator Response

Do one of the following, then try the request again:

- Ensure that the file `/opt/dcelocal/etc/ether_addr` exists. If the file does not exist, create the file.
- Ensure that the Distributed File Service kernel has read permission to the file.

If the problem continues, contact the service representative.

IOEP01173A

DFS kernel detects that ethernet address contains characters that are not valid.

Explanation

The Distributed File Service kernel cannot process the ethernet address because the ethernet address contains characters that are not valid.

System action

The program continues.

Severity

svc_c_sev_fatal

Administrator Response

Ensure that the contents of the file `/opt/dce/local/etc/ether_addr` are syntactically correct and try the request again. If the problem continues, contact the service representative.

IOEP01174A**DFS kernel is not APF authorized.**

Explanation

The Distributed File Service kernel cannot call a service which requires authorized program facility (APF) authorization. The request fails because the Distributed File Service kernel is not APF authorized. This error should not occur during normal processing.

System action

The program ends abnormally.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

APF authorize the Distributed File Service kernel program and try the request again. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_fatal

IOEP01175A**CDS clerk cannot start because CDS advertiser has status DOWN.**

Explanation

The Distributed File Service kernel detects that the CDS clerk has ended. As a result, the kernel attempts to stop the CDS advertiser and start it again before starting the clerk. However, the advertiser already had status DOWN, and the kernel does not attempt to automatically start the advertiser unless it has ended the advertiser first. If the advertiser is not started, the Distributed File Service kernel cannot start the clerk.

System action

The program continues.

Operator response

Check the console log for any messages, probes, or dumps that occur prior to this message, and notify the system programmer.

System programmer response

Use the diagnostic data collected by the operator to determine the probable cause of the failure. If the problem can be corrected, start the CDS advertiser, and start the CDS clerk. If the problem continues, contact the service representative.

Severity

svc_c_sev_error

IOEP01176I **START ALL command has completed.**

Explanation

The Distributed File Service kernel has completed processing of the **START ALL** command issued by the operator.

System action

The program continues.

Severity

svc_c_sev_notice

IOEP01517I **DFS kernel receives a *request_name* request from TSO user *user_ID*.**

Explanation

The Distributed File Service kernel received the specified request from the TSO user indicated.

System action

The Distributed File Service kernel processes the request and continues.

Severity

svc_c_sev_notice

IOEP01518A **DFS kernel encounters error during stop request. *error_text*.**

Explanation

The Distributed File Service kernel cannot perform the stop request synchronously. Additional information about the error is provided by the DFS library *error_text*, which is returned from the **pthread_get_expiration_np()** function. If the request is to stop all processes, they are stopped asynchronously. This error should not occur during normal processing.

System action

The program continues with reduced function.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01519A DFS kernel encounters error during stop request. *error_text*.

Explanation

The Distributed File Service kernel cannot perform the stop request synchronously. Additional information about the error is provided by the C library *error_text*, which is returned from the **pthread_cond_timedwait()** function. If the request is to stop all processes, they are stopped asynchronously. This error should not occur during normal processing.

System action

The program continues with reduced function.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01520A DFS kernel encounters error during stop request. *error_text*.

Explanation

The Distributed File Service kernel encounters an error while stopping. Additional information about the error is provided by the C library *error_text*, which is returned from the **pthread_kill()** function. The STOP Distributed File Service kernel processing continues. This error should not occur during normal processing.

System action

The program continues with reduced function.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative. Additional information about dumps is found in [z/OS Language Environment Debugging Guide](#).

Severity

svc_c_sev_error

IOEP01700A **Cannot retrieve a system level token, *token_name*. System return code: *return_code*.**

Explanation

The DFS control task or a daemon control task cannot retrieve a system level named token. The value *return_code* is returned from the **ieantrt()** callable service. The name of the token being retrieved is also displayed. This error should not occur during normal processing.

System action

The DFS control task continues. The daemon may not start successfully.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative.

Additional information about the system return code is found in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*. Additional information about dumps is found in *z/OS Language Environment Debugging Guide*.

Severity

svc_c_sev_error

IOEP01701A **Cannot start the MVS pause service. System return code: *return_code*, system reason code *reason_code*.**

Explanation

The DFS control task cannot wait for the event control blocks used by the DFS when starting a daemon in a separate address space. The values *return_code* and *reason_code* are returned from the **BPX1MP()** callable service. This error should not occur during normal processing.

System action

The DFS control task continues, but cannot start any daemon in a separate address space.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative.

Additional information about the callable service and the system return code is found in *z/OS UNIX System Services Programming: Assembler Callable Services Reference*. Additional information about dumps is found in *z/OS Language Environment Debugging Guide*.

Severity

svc_c_sev_error

IOEP01704A Start parameters for daemon *daemon_name* are too long.

Explanation

The DFS kernel cannot start the daemon specified in the message in a separate address space because the start options specified on the **modify dcekern,start** command are too long. The maximum start options length for a daemon that runs in its own address space is 95.

System action

The DFS control task continues, but the daemon is not started. Additional daemons that start after this daemon will not be started.

Operator response

Either shorten the length of the start options on the **modify dcekern,start** command or contact the system programmer to start the daemon in the DFS address space.

System programmer response

To force this daemon to start within the DFS address space, specify a list that does not include the name of this daemon for the value of the **_IOE_DAEMONS_IN_AS** environment variable in the `/opt/dfslocal/home/dfscntl/envvar` file. Then, try the request again.

Severity

svc_c_sev_error

IOEP01705A Cannot create a system level token, *token_name*. System return code: *return_code*.

Explanation

The DFS control task or a daemon control task cannot create a system level named token. The value *return_code* is returned from the **ieantcr()** callable service. The name of the token being created is also displayed. This error should not occur during normal processing.

System action

If the token is for the DFS control task, processing continues without the token. If the token is for a daemon control task, the daemon does not start and additional daemons that start after this daemon will not be started.

Operator response

Collect the dump and probe information and notify the system programmer.

System programmer response

Use the dump to help determine the probable cause of the failure. If the problem continues, save the dump and contact the service representative.

Additional information about the system return code is found in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*. Additional information about dumps is found in *z/OS Language Environment Debugging Guide*.

Severity

svc_c_sev_error

IOEP01706A DFS kernel cannot start because it is already running.

Explanation

There can only be one active DFS control task. A second DFS control task cannot be started if one is already running.

System action

The program ends abnormally.

Operator response

Use the **stop** command to stop the active DFS control task. Then try the request again.

Severity

svc_c_sev_error

IOEP01707A Daemon *daemon_name* cannot start because it is already running.

Explanation

There can be only one active instance of a daemon. A second daemon of the same type cannot be started if one is already running. This problem can occur if the daemon is started without using the **modify dfs,start** command.

System action

The daemon is not started.

Operator response

Use the **stop** command to stop the active daemon. Then try the request again. Always start daemons using the **modify dfs,start** command.

Severity

svc_c_sev_error

IOEP01708A Incorrect arguments used to start daemon *daemon_name* in its own address space.

Explanation

The attempt to start the specified daemon in a separate address space failed because incorrect arguments were passed to the start procedure. This can occur if the procedure to start the daemon was invoked directly or if the procedure was modified incorrectly.

System action

The daemon is not started.

- 514**
Cannot retrieve requester's TSO user ID.
- 769**
Daemon not configured.
- 770**
Daemon status precludes the request.
- 771**
Time out occurred.
- 773**
Error in /opt/dfslocal/etc/ioepdcf file.
- 774**
Cannot create process.
- 775**
Cannot kill process.
- 784**
Exception detected.
- 1025**
Socket create failed.
- 1026**
Socket connect failed.
- 1027**
Socket write failed.
- 1028**
Socket read failed.
- 1281**
Cannot open /opt/dfslocal/etc/ioepdcf file.
- 1282**
Cannot read /opt/dfslocal/etc/ioepdcf file.
- 1537**
Cannot allocate memory.
- 1538**
Cannot obtain mutex.
- 1539**
Cannot release mutex.

If a return code occurs that does not appear in the above list, contact the service representative.

Severity

svc_c_sev_fatal

IOEP01711I DFS kernel cannot export the file system *filesystem_name* because zFS is running sysplex=on.

Explanation

The Distributed File Service kernel is not able to export the read/write zFS file system, *filesystem_name*, because zFS is running sysplex-aware on a system basis (sysplex=on). If you need to export the file system, you must run zFS non-sysplex aware (sysplex=off) or run zFS as sysplex-aware on a file system basis (sysplex=filesys) and ensure that the zFS file system is mounted non-sysplex aware. For more information, see [z/OS File System Administration](#).

System action

The program continues.

User response

None.

Severity

svc_c_sev_warning

IOEP01712I DFS kernel cannot export the file system *filesystem_name* because zFS is sysplex-aware.

Explanation

The Distributed File Service kernel is not able to export the read/write zFS file system, *filesystem_name*, because the file system was mounted as sysplex-aware. If you need to export the file system, the file system cannot be mounted sysplex-aware. For more information, see [z/OS File System Administration](#).

System action

The program continues.

User response

None.

Severity

svc_c_sev_warning

IOEP01713I DFS kernel cannot export the file system *filesystem_name* because a zFS PFSCCTL call failed. Command *command*, subcommand *subcommand*, failed with RC=*rc* and reason=*reason*.

Explanation

The Distributed File Service kernel calls the zFS PFSCCTL to access file system information but the call failed and the file system information could not be obtained. For more information about the indicated command, subcommand and reason code, see [z/OS File System Administration](#).

System action

The program continues.

User response

None.

Severity

svc_c_sev_warning

IOEP12300I Usage: *ProgramName*

Explanation

This message displays the command syntax when the **-help** parameter is entered.

System action

The program ends.

User response

None.

Severity

svc_c_sev_warning

IOEP12301I**Usage: *ProgramNameSubCommand*****Explanation**

This message displays the command syntax when the **-help** parameter is entered.

System action

The program ends.

User response

None.

Severity

svc_c_sev_warning

IOEP12303I**Aliases:****Explanation**

The request produces a list of all the aliases for a command.

System action

The program ends.

User response

None.

Severity

svc_c_sev_warning

IOEP12304I**Unable to find command as entered.****Explanation**

The **-apropos** parameter for this sub-command was entered without a description.

System action

The program ends.

User response

Ensure that the subcommand is entered correctly, then try the request again.

Severity

svc_c_sev_warning

IOEP12305I

ProgramName Commands are:

Explanation

When the **help** subcommand or **-help** parameter is the only argument supplied for a command, a list of the valid subcommands is returned.

System action

The program ends.

User response

None.

Severity

svc_c_sev_warning

IOEP12306I

ProgramName Unknown topic '*SubCommand*'.

Explanation

The **-help** parameter is not a valid subcommand for this command.

System action

The program ends.

User response

Enter the command again specifying a valid subcommand name.

Severity

svc_c_sev_warning

IOEP12307I

ProgramName Ambiguous topic '*SubCommand*'; use 'apropos' to list.

Explanation

The **-help** parameter is ambiguous for *SubCommand* because more than one subcommand or topic can match the string. Use **apropos** to list them.

System action

The program ends.

User response

Enter the command again using an appropriate topic that is not abbreviated.

Severity

svc_c_sev_warning

IOEP12308I *ProgramName: Unable to create new argv array with Size+2 slots.*

Explanation

The program cannot obtain enough storage to continue parsing the command.

System action

The program ends.

User response

Run the program again specifying a larger virtual storage size.

Severity

svc_c_sev_warning

IOEP12309I *ProgramName: Insufficient storage to malloc initial opcode space.*

Explanation

The program cannot obtain enough storage to continue parsing the command.

System action

The program ends.

User response

Run the program again specifying a larger virtual storage size.

Severity

svc_c_sev_warning

IOEP12310I *ProgramName: Type 'ProgramName -help' for help.*

Explanation

The *ProgramName* command was entered without an argument; at least one is required.

System action

The program ends.

User response

Enter the command again with one or more arguments.

Severity

svc_c_sev_warning

IOEP12311I *ProgramName: Type 'ProgramName help' or 'ProgramName help <topic>' for help.*

Explanation

The *ProgramName* command was entered without the required subcommand.

System action

The program ends.

User response

Enter the command again specifying an appropriate subcommand.

Severity

svc_c_sev_warning

IOEP12312I	<i>UnkownAmbig</i> operation '<i>SubCommand</i>'; type '<i>ProgramName help</i>' for list.
-------------------	---

Explanation

The subcommand *SubCommand* is either ambiguous or not valid. Commands cannot be abbreviated because multiple subcommands might match the abbreviation. Type *ProgramName help* for a list of valid subcommands.

System action

The program ends.

User response

Enter the *ProgramName* command again specifying a valid, unabbreviated subcommand.

Severity

svc_c_sev_warning

IOEP12313I	<i>ProgramName</i> Unable to insert implicit initialization opcode into command line.
-------------------	--

Explanation

There is not enough storage to parse the command line.

System action

The program ends.

User response

Enter the *ProgramName* command again specifying a larger virtual storage size.

Severity

svc_c_sev_warning

IOEP12314I	<i>UnkownAmbig</i> operation '<i>SubCommand</i>'; type '<i>ProgramName help</i>' for list.
-------------------	---

Explanation

The subcommand *SubCommand* is either ambiguous or not valid. Commands cannot be abbreviated because multiple subcommands might match the abbreviation. Type *ProgramName* help for a list of valid subcommands.

System action

The program ends.

User response

Enter the *ProgramName* command again specifying a valid, unabbreviated subcommand.

Severity

svc_c_sev_warning

IOEP12315I *ProgramNameUnknownAmbig* parameter '*Parameter*'; type.

Explanation

The parameter *Parameter* is either ambiguous or not valid. Parameters cannot be abbreviated because multiple parameters might match the abbreviation.

System action

The program ends.

User response

Enter the command again with a valid, unabbreviated parameter.

Severity

svc_c_sev_warning

IOEP12318I *ProgramName* Internal parsing error.

Explanation

An internal error was encountered while parsing the command line.

System action

The program ends.

User response

Contact the service representative.

Severity

svc_c_sev_warning

IOEP12319I *ProgramName* Too many arguments.

Explanation

Too many arguments were entered for the *ProgramName* command.

System action

The program ends.

User response

Enter the command again specifying fewer arguments.

Severity

svc_c_sev_warning

IOEP12320I *ProgramName Too many values after parameter Parameter***Explanation**

Too many values were entered for parameter *Parameter*. *Parameter* is a single-valued parameter and more than one value was provided on the command line.

System action

The program ends.

User response

Enter the command with only one value for the *Parameter* parameter.

Severity

svc_c_sev_warning

IOEP12321I *ProgramName Missing required parameter 'Parameter'.***Explanation**

A required parameter for this command was not entered.

System action

The program ends.

User response

Enter the command specifying a value for the required parameter.

Severity

svc_c_sev_warning

IOEP12322I *ProgramNameAmbigUnk switch 'Switch'; type***Explanation**

The switch name entered was either ambiguous, abbreviated, or an incorrect switch.

System action

The program ends.

User response

Enter the command with a valid, unabbreviated switch name.

Severity

svc_c_sev_warning

IOEP12323I The parameters "*Parameter1*" and "*Parameter2*" cannot be used together.

Explanation

The parameters *Parameter1* and *Parameter2* are mutually exclusive, both cannot be specified on same command line.

System action

The program ends.

User response

Enter the command with either *Parameter1* or *Parameter2* but not both.

Severity

svc_c_sev_warning

IOEP12400I The parameter, *Parameter1*, requires *String* non-null argument value.

Explanation

The parameter *Parameter1* requires one or more values but none were specified.

System action

The program ends.

User response

Enter the command specifying a value for *Parameter1*.

Severity

svc_c_sev_warning

IOEP12401I The argument, *Argument*, does not represent a valid value for the parameter *Parameter*.

Explanation

The value specified for *Parameter* was not valid.

System action

The program ends.

User response

Enter the command with a valid value for *Parameter*.

Severity

svc_c_sev_warning

IOEP12402E

As of z/OS Version 1 Release 13, the DFS client function has been removed

Explanation

The DFS client (DFSCM) is a physical file system that was started during z/OS UNIX initialization based on a FILESYSTYPE statement in the BPXPRMxx parmlib member. However, starting in z/OS V1R13, this client is no longer supported.

System action

The program ends.

User response

Remove the following statement from the BPXPRMxx parmlib member to prevent the DFS client from initializing:

```
FILESYSTYPE TYPE(DFSC)
ENTRYPOINT(IOECMINI)
  PARM('ENVAR("_EUV_HOME=/opt/dfslocal/home/dfscm") /
>DD:IOEDFSD 2>&1')
ASNAME(DFSCM)
```

Then, either re-IPL the system or shutdown and restart z/OS UNIX. For more information, see [z/OS UNIX System Services Planning](#).

Severity

svc_c_sev_error

IOEP12403I

SMB does not support encrypted data sets. *dataset* access has been blocked.

Explanation

An attempt was made to access an encrypted data set. The Distributed File Service SMB server does not support data sets that have been encrypted. Access to the data set listed has been blocked.

System action

The program continues but the user cannot access the listed data set.

User response

None.

Severity

svc_c_sev_warning

Chapter 6. IOEWnnnnnt: SMB File/Print Server messages

This topic contains the messages that can result from SMB File/Print Server processing.

IOEW16000A **SMB: server name not specified in envar file.**

Explanation

The file exporter cannot read the `_IOE_SMB_SERVER_NAME` variable from the **dfskern** environment variable file.

System action

The program ends.

Severity

`svc_c_sev_error`

Administrator Response

Add the `_IOE_SMB_SERVER_NAME` to the envar file for **dfskern** and restart the file exporter. Additional information about the **dfskern** environment variables can be found in *z/OS Distributed File Service SMB Administration*.

IOEW16001A **SMB: server name longer than 15 characters.**

Explanation

The file exporter found that the `_IOE_SMB_COMPUTER_NAME` **dfskern** environment variable specified a name longer than 15 characters.

System action

The program ends.

Severity

`svc_c_sev_error`

Administrator Response

Change the `_IOE_SMB_COMPUTER_NAME` **dfskern** environment variable to specify a name not more than 15 characters long and restart the file exporter. Additional information about the **dfskern** environment variables can be found in *z/OS Distributed File Service SMB Administration*.

IOEW16003A **SMB: domain name longer than 15 characters.**

Explanation

The file exporter found that the `_IOE_SMB_DOMAIN_NAME` **dfskern** environment variable specified a name longer than 15 characters.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Change the `_IOE_SMB_DOMAIN_NAME` **dfskern** environment variable to specify a name not more than 15 characters long and restart the file exporter. Additional information about the **dfskern** environment variables can be found in *z/OS Distributed File Service SMB Administration*.

IOEW16004A

SMB: server description not specified in envar file.

Explanation

The file exporter cannot read the `_IOE_SMB_DESCRIPTION` environment variable from the **dfskern** envar file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Add the `_IOE_SMB_DESCRIPTION` environment variable to the envar file for **dfskern** and restart the file exporter. Additional information about the **dfskern** environment variables can be found in *z/OS Distributed File Service SMB Administration*.

IOEW16005A

SMB: description longer than 50 characters.

Explanation

The file exporter found that the `_IOE_SMB_DESCRIPTION` **dfskern** environment variable specified a description longer than 50 characters.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Change the `_IOE_SMB_DESCRIPTION` **dfskern** environment variable to specify text not more than 50 characters long and restart the file exporter. Additional information about the **dfskern** environment variables can be found in *z/OS Distributed File Service SMB Administration*.

IOEW16006I

SMB: default logon ID *defaultId* is incorrect or missing.

Explanation

The file exporter found that the `_IOE_MVS_DFSDFLT` variable for **dfskern** is either not set in the `envar` file or is too large to be a valid z/OS user ID.

System action:

The program continues.

Severity

`svc_c_sev_error`

Administrator Response

Change the `_IOE_MVS_DFSDFLT` **dfskern** environment variable to specify a valid z/OS user ID if unauthenticated guest support is desired. Additional information about **dfskern** environment variables can be found in *z/OS Distributed File Service SMB Administration*.

IOEW16007A **SMB: cannot create thread in pool, pthread_create error status.**

Explanation

The file exporter cannot create a thread in the SMB dispatch thread pool.

System action

The program ends.

Severity

`svc_c_sev_error`

Administrator Response

This condition may be caused by a lack of memory in the file exporter address space. Increase the region size and restart DFS. If the problem continues, contact the service representative.

IOEW16008A **SMB: scope name too long.**

Explanation

The scope name cannot be longer than 223 characters.

System action

The program ends.

Severity

`svc_c_sev_error`

Administrator Response

The scope name is specified in the **dfskern** environment variable `_IOE_SMB_SCOPE`. Additional information about specifying the scope name is found in *z/OS Distributed File Service SMB Administration*.

IOEW16009A **SMB: incorrect primary WINS IP address specified.**

Explanation

An incorrect IP address was specified for the primary WINS server in **dfskern** environment variable `_IOE_SMB_PRIMARY_WINS`.

System action

The program ends.

Severity

`svc_c_sev_error`

Administrator Response

Additional information about specifying the WINS primary address is found in *z/OS Distributed File Service SMB Administration*.

IOEW16010A

SMB: incorrect secondary WINS IP address specified.

Explanation

An incorrect IP address was specified for the secondary WINS server in the **dfskern** environment variable `_IOE_SMB_SECONDARY_WINS`.

System action

The program ends.

Severity

`svc_c_sev_error`

Administrator Response

Additional information about specifying the WINS secondary address is found in *z/OS Distributed File Service SMB Administration*.

IOEW16011A

SMB: primary WINS IP address not specified.

Explanation

Although a primary WINS server internet address was not indicated, the administrator specified the SMB file server to serve as a WINS proxy server.

System action

The program ends.

Severity

`svc_c_sev_error`

Administrator Response

Specify a primary WINS server IP address in the **dfskern** environment variable `_IOE_SMB_PRIMARY_WINS`. Additional information about specifying the WINS primary address is found in *z/OS Distributed File Service SMB Administration*.

IOEW16012A **SMB: Secondary WINS IP address specified without a primary WINS address.**

Explanation

Although a primary WINS server internet address was not specified, the administrator specified a secondary WINS IP address.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Specify a primary WINS server IP address in the **dfskern** environment variable `_IOE_SMB_PRIMARY_WINS`. Additional information about specifying the WINS primary address is found in *z/OS Distributed File Service SMB Administration*.

IOEW16013A **SMB: malloc() error with insufficient storage for async_anchor block.**

Explanation

The **dfskern** program cannot obtain the storage required for SMB Server initialization.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Restart the SMB server with a larger region size.

IOEW16021A **Error opening SMB map file *filename*, return code = *code*.**

Explanation

Unable to open the SMB user ID map file specified by the **dfskern** environment variable `_IOE_SMB_IDMAP`.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Verify that the file name specified in the **dfskern** environment variable `_IOE_SMB_IDMAP` is correct. Additional information about **dfskern** environment variables can be found in *z/OS Distributed File Service SMB Administration*.

IOEW16022I **Error closing SMB map file *filename*, return code = *code*.**

Explanation

The SMB user ID map file specified by the **dfskern** environment variable `_IOE_SMB_IDMAP` could not be closed.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Verify that the file name specified is correct and fully qualified.

IOEW16023I

The SMB user ID map table was successfully built.

Explanation

The map table was built successfully.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEW16024A

The SMB user ID map table was not successfully built.

Explanation

The table cannot be built because of errors indicated in prior messages.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Use the prior messages to correct the SMB user ID map table. The SMB user ID map table is pointed to by **dfskern** environment variable `_IOE_SMB_IDMAP`. Additional information about the SMB user ID map table is found in *z/OS Distributed File Service SMB Administration*.

IOEW16025A

The SMB user ID map table lines mismatched.

Explanation

The contents of the SMB user ID map table specified by the **dfskern** environment variable `_IOE_SMB_IDMAP` has mismatching lines. This error indicates that the number of SMB user IDs and z/OS user IDs specified in the file were not the same.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Examine the contents of the SMB user ID map file and correct any errors found. Reload the SMB user ID map file using the modify command: F DFS,SEND DFSKERN,RELOAD,SMBMAP. Additional information about constructing and loading SMB user ID map tables is found in *z/OS Distributed File Service SMB Administration*.

IOEW16026A

The SMB user ID map table contains duplicate lines.

Explanation

The contents of the SMB user ID map table specified by the **dfskern** environment variable **_IOE_SMB_IDMAP** contains duplicate lines. This error indicates an SMB user ID is being mapped to a z/OS user ID more than once. The first correct entry will be used.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Examine the contents of the SMB user ID map file and correct any errors found. Reload the SMB user ID map file using the modify command: F DFS, SEND DFSKERN,RELOAD,SMBMAP. Additional information about constructing and loading SMB user ID map tables is found in *z/OS Distributed File Service SMB Administration*.

IOEW16027I

The z/OS Infoprint Server cannot be initialized.

Explanation

The call to the z/OS Infoprint Server API InitAPI failed. The SMB Server is not able to perform print related functions.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

No further actions are necessary if the SMB Server will not be used to perform print related functions. If the SMB Server is to perform print related functions, use the information provided in the previous message along with information in *z/OS Infoprint Server Messages and Diagnosis* to fix the problem. Then, issue the modify command to initialize z/OS Infoprint Server: F DFS, SEND DFSKERN, RELOAD, PRINT. Enable the SMB Server for shared printer definitions. Additional information about enabling the server is found in *z/OS Distributed File Service SMB Administration*.

IOEW16028I

The z/OS Infoprint Server is successfully initialized.

Explanation

The call to the z/OS Infoprint Server API InitAPI was successful. Printing functions can be performed by the SMB Server.

System action

The program continues. The SMB Server is unable to print.

Severity

svc_c_sev_error

Administrator Response

Contact your service representative for the z/OS Infoprint Server.

IOEW16032A **SMB: variable *variable_name* in envar file is incorrect.**

Explanation

An incorrect value was specified to the DFS file exporter. The default value will be used instead.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Change the variable to specify a correct value. Additional information about the variable is found in *z/OS Distributed File Service SMB Administration*.

IOEW16033I **SMB: variable *variable_name* is set to *variable_value*.**

Explanation

The file exporter is using the specified value for the variable. The value is either the value read from the envar file or the default value if the value in the envar file is incorrect or missing.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16034I **z/OS Infoprint Server is not enabled for printing.**

Explanation

The z/OS Infoprint Server has not been properly enabled for printing. It cannot be used by the SMB Server.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

The SMB Server must be properly enabled and reloaded to use the z/OS Infoprint Server. Additional information on properly enabling the print server is found in *z/OS Infoprint Server Messages and Diagnosis*. Issue the **modify** command, F DFS, SEND DFSKERN, RELOAD, PRINT, to cause the SMB Server to reload the z/OS Infoprint Server DLL. Additional information about enabling the SMB server is found in *z/OS Distributed File Service SMB Administration*.

IOEW16035I

session_start: error *errno* receiving from *ip1.ip2.ip3.ip4*.

Explanation

An error was encountered while attempting to receive data from a PC client. *errno* is the standard *errno* value received.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the error can be found in *z/OS UNIX System Services Messages and Codes*. In many cases the error requires no action because it represents a client that is powered off or disconnected from the network which is outside the server's control. If the problem continues and the client has not been shut off or disconnected, contact your service representative.

IOEW16036I

session_send: write error *errno* for socket *socketnum* from *ip1.ip2.ip3.ip4*.

Explanation

An error was encountered while attempting to send data to a PC client. The *errno* is the standard *errno* value received.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. In many cases, the error requires no action because it represents a client that is powered off or disconnected from the network which is outside the server's control. If the problem continues and the client has not been shut off or disconnected, contact your service representative.

IOEW16037I

session_sendstream: write error *errno* for socket *socketnum* from *ip1.ip2.ip3.ip4*.

Explanation

An error was encountered while attempting to send data to a PC client. The *errno* is the standard *errno* value received.

System action:

The program continues.

Explanation

An error was encountered while attempting to receive data from a PC client. The *errno* is the standard errno value received.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. In many cases, the error requires no action because it represents a client that is powered off or disconnected from the network which is outside the server's control. If the problem continues and the client has not been shut off or disconnected, contact the service representative.

IOEW16041I **ss_handle_stream: read error *errno* for socket *socketnum* from *ip1.ip2.ip3.ip4*.**

Explanation

An error was encountered while attempting to receive data from a PC client. The *errno* is the standard errno value received.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. In many cases, the error requires no action because it represents a client that is powered off or disconnected from the network which is outside the server's control. If the problem continues and the client has not been shut off or disconnected, contact the service representative.

IOEW16042A **Service port *port_number* socket *socket_function* call failed, *errno*=*errno*.**

Explanation

An error was encountered while attempting to create the main session socket. In the message text:

Service

The SMB network service reporting the error.

port_number

The TCP or UDP port number.

socket_function

Failing network function name.

errno

Standard errno value received on the ***socket_function***.

System action

The program ends.

Severity

svc_c_sev_fatal

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative.

IOEW16043A *service: setsockopt() call for type port failed, errno=errno.*

Explanation

An error was encountered while attempting to enable the main session socket for address reuse. The *errno* is the standard *errno* value received.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative.

IOEW16044A *service: bind() call for type port failed, errno=errno.*

Explanation

An error was encountered while attempting to bind to the main session socket. The *errno* is the standard *errno* value received.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative.

IOEW16045A *service: listen() call for type port failed, errno=errno.*

Explanation

An error was encountered while attempting to listen on the main session socket. The *errno* is the standard *errno* value received.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact the service representative.

IOEW16046A *service: accept() call for type port failed, errno=errno.*

Explanation

An error was encountered while attempting to accept connections on the main session socket. The *errno* is the standard errno value received.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative.

IOEW16047A *The z/OS Infoprint Server encountered error **msgnumber** in routine **routine_name***

Explanation

A call from the SMB Server to an z/OS Infoprint Server API routine caused the Infoprint Server to encounter an unexpected error condition.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Use the messages before and after this message along with the *z/OS Infoprint Server Messages and Diagnosis* to resolve the problem. Additional information about restarting the SMB Server is found in *z/OS Distributed File Service SMB Administration*.

IOEW16048I *Use smbpbw to change your RACF DCE segment password.*

Explanation

Use the command to set/reset your password in the RACF DCE segment.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16055I Your password has been updated.

Explanation

The command was completed successfully.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16056I Incorrect input values. The first password that was specified does not match the second password that was specified.

Explanation

The command did not complete successfully.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16057I Enter Password:

Explanation

The user is prompted for their password.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16058I

Re-enter Password:

Explanation

The user is prompted to enter their password again.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16059A

Smbpw was unable to update your DCE segment: S1 = Saf return code, R1 = Security server return code, R2 = Security server reason code.

Explanation

The password was not updated.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the return codes for RACF is found in [*z/OS Security Server RACF Callable Services*](#) under IRRSDK00.

IOEW16060A

The OCSF product dll is not available.

Explanation

Check to ensure that OCSF is installed. If the dll exists, check the extattr bits and verify **DFSKERN** environment variable LIBPATH.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

Additional information about OCSF is found in [*z/OS Open Cryptographic Services Facility Application Programming*](#).

IOEW16061A

The password is too long, limit password to 14 characters.

Explanation

The password cannot exceed 14 characters.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16062A OCSF failed to initialize: the return code is S1.

Explanation

The call to CSSM_Init failed. Verify **dfskern** environment variable LIBPATH.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

Additional information about OCSF is found in [*z/OS Open Cryptographic Services Facility Application Programming*](#).

IOEW16063A DFSKERN could not attach the CSSM_ALGID_DES module.

Explanation

One possible cause is that OCSF is not installed.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

Additional information about OCSF is found in [*z/OS Open Cryptographic Services Facility Application Programming*](#).

IOEW16064A Generate key context failed, the return code is S1.

Explanation

The call to create a key generation cryptographic context failed. Use the return code to analyze the reason for the failure.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the return code is found in [z/OS Open Cryptographic Services Facility Application Programming](#).

IOEW16065A **Generate key failed, the return code is S1.****Explanation**

The call to generate an encryption key failed. If the call is for a hardware generated key, and it is the first call at initialization, you will see a message that hardware encryption is not available. If this occurs, the system will continue using software encryption. If both hardware and software encryption fail, then DFS will shut down. If this message occurs during a client login, DFS will not shut down. Hardware encryption will not be available unless it is installed on the processor. Verify that OCSF is completely installed and verify **dfskern** environment variable LIBPATH.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the return code is found in [z/OS Open Cryptographic Services Facility Application Programming](#).

IOEW16066A **Delete key context failed, the return code is S1.****Explanation**

The call to remove the key generation context failed. If the first two calls during initialization fail, then DFS will shut down. If the call fails during a client login, then the system will continue as long as possible. Analyze the return code to determine the cause of the failure.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the return code is found in [z/OS Open Cryptographic Services Facility Application Programming](#).

IOEW16067A **Generate symmetric context failed, the return code is S1.**

Explanation

The call to generate a symmetric encryption cryptographic context failed. If both the hardware context call and the software context call fail at initialization time, then **DFS** shuts down. If the hardware context call and the software context call fail during a login, then the login fails. Use the return code to analyze the cause of the failure.

System action

If the failures occur during initialization, the program stops. If the failures occur during a login, the login will fail.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the return code is found in [z/OS Open Cryptographic Services Facility Application Programming](#).

IOEW16068A Data encryption failed, the return code is S1.

Explanation

Encryption of the data ended unsuccessfully.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the return code is found in [z/OS Open Cryptographic Services Facility Application Programming](#).

IOEW16069A smbinit: gethostname() call failed, errno=errorcode.

Explanation

An error was encountered while attempting to obtain the TCP/IP hostname. The *errorcode* is the standard error code received.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Additional information about the error is found in [z/OS UNIX System Services Messages and Codes](#). This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative.

IOEW16070I**smbinit: browse interval *browseInterval* ms not allowed, set to 720000 ms.**

Explanation

The browse interval *browseInterval* specified for `_IOE_SMB_BROWSE_INTERVAL` in the environment variable file for **dfskern** is not valid. The default value of 720000 ms is used.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Update the `_IOE_SMB_BROWSE_INTERVAL` in the `envar` file for **dfskern** and restart the file exporter. Additional information about the **dfskern** environment variables can be found in *z/OS Distributed File Service SMB Administration*.

IOEW16071A**service: ioctl() call for request failed, errno=errno.**

Explanation

An error was encountered while attempting to retrieve information about the network interfaces on this system. *errno* is the standard `errno` value received.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative.

IOEW16072I**service: ioctl() call for request failed, errno=errno.**

Explanation

An error was encountered while attempting to retrieve information about a specific network interface. *errno* is the standard `errno` value received.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative.

IOEW16073A

routine: Network interfaces unavailable, rc=rc.

Explanation

An error was encountered while attempting to retrieve information about available system network interfaces. The *rc* is the return code received from the call.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

The DFS SMB server uses standard `ioctl()` calls to identify active network interfaces on the z/OS system. No active network interfaces were identified. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative.

IOEW16074I

routine: Unable to register with wins WINS server, rc=rc.

Explanation

An error was encountered while attempting to register information with the primary or secondary WINS server. *rc* is the return code received from the call. Return code 11 means that the SMB server could not contact the WINS server.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

The DFS SMB server was unable to communicate with the primary or secondary WINS server. Check the **_IOE_SMB_PRIMARY_WINS** and the **_IOE_SMB_SECONDARY_WINS** environmental variables in the `envar` file for **dfskern**, and make sure they specify the correct IP addresses. Then check the WINS server machines to see that they are fully operational. If the problem continues, contact your service representative.

IOEW16075A

routine: Host name registration failed, rc=rc.

Explanation

An error was encountered while attempting to register the SMB hostname of the DFS SMB server. *rc* is the return code received from the call. Return code 22 means that the SMB computer name is a duplicate with another machine.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

The DFS SMB server was unable to register the currently configured hostname. The hostname is probably in conflict with the name registered for use on another machine in the network. Check the environmental variable `_IOE_SMB_COMPUTER_NAME` in the `envar` file for **dfskern**, and update it with a non-conflicting hostname. If the problem continues, contact your service representative.

IOEW16076A *service: create of threadtype thread failed, code=code.*

Explanation

The file exporter cannot create a thread in the SMB service thread pool.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

This condition may be caused by a lack of memory in the file exporter address space. Increase the region size and restart DFS. If the problem continues, contact the service representative.

IOEW16077I *Service port port_number error errno setting socket option socket_option.*

Explanation

Error *errno* was encountered while DFS was attempting to set the standard socket option *socket_option*. In the message text:

Service

The SMB network service reporting the error.

port_number

The TCP or UDP port number.

errno

The *errno* value received on the *socket_option* call.

socket_option

The socket option DFS attempted to set.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative.

IOEW16078A

service: Unable to receive data on socket, code=rc.

Explanation

An error was encountered while attempting to receive data on the main session socket. The *rc* is the standard return code value received.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Additional information about the error is found in *z/OS MVS System Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative.

IOEW16079I

User *user* on client *client* did not respond to the callback for file *file* within the timeout period.

Explanation

A callback was issued to the user for an oplocked file because another user wanted to access the file, but the called back user did not respond within the timeout period specified by `_IOE_SMB_OPLOCK_TIMEOUT` in the environment variable file for **dfskern**. The SMB server will remove the oplock on the file and will not allow the called back user to access the file except to close it. The other user will be granted access to the file.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

If the delays are caused by a slow network, then increase `_IOE_SMB_OPLOCK_TIMEOUT` in the `envar` file for **dfskern** and restart **dfskern**. If not, ignore the message because it is normal for some clients to choose not to respond to some oplock callbacks. Additional information about the **dfskern** environment variables can be found in *z/OS Distributed File Service SMB Administration*.

IOEW16080I

Hardware encryption is not available, software encryption will be used.

Explanation

Hardware encryption is not available. Software encryption will be used instead.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16081A

There is no SMB map table __ and no valid MVS default userid. __ With this combination no one can logon to the SMB server. __ The Server is shutting down. __ Set _IOE_SMB_IDMAP and/or _IOE_MVS_DFSDFLT to valid __ values in DFSKERN's envvar file and restart.

Explanation

Without a SMB map table and a valid MVS default id, user cannot logon to the SMB server. The Server shuts down.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Either set up a SMB ID map table, or define an MVS default user ID or both.

IOEW16082A

TCPIP is currently unavailable. Without TCPIP, users are unable to logon to the SMB server. The SMB server is shutting down. Wait until TCPIP is available and then restart DFSKERN using the 'f dfs,start dfskern' command.

Explanation

Without TCPIP users cannot logon to the SMB server. The Server shuts down.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Wait until TCPIP is available and then restart the dfskern process using 'f dfs,start dfskern'.

IOEW16083I

SMB: The OCSF envvar value is .StatusMsg.

Explanation

This is the value that the OCSF envvar is currently set to.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16084I

SMB: The OCSF envar value is defaulting to ON.

Explanation

No value was specified so the default value is used.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16085A

SMB: The value coded for _IOE_SMB_OCSF is not valid.

Explanation

The only two valid values for this variable are ON or OFF.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Update the variable in **dfskern**'s envar file.

IOEW16086A

The primary authentication server *ip1.ip2.ip3.ip4* was not found by gethostbyaddr.

Explanation

This ipaddr is not part of your network or it is not in the domain name server. Try pinging the ipaddr and see if it can be found. If the ipaddr is not valid, update the **_IOE_SMB_AUTH_SERVER** to be a valid ipaddr.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Update **_IOE_SMB_AUTH_SERVER** in **DFSKERN**'s envar file.

IOEW16087A

The backup authentication server *.ip1.ip2.ip3.ip4* was not found by gethostbyaddr.

Explanation

This ipaddr is not part of your network or it is not in the domain name server. Try pinging the ipaddr and see if it can be found. If the ipaddr is not valid, update the _IOE_SMB_BACKUP_AUTH_SERVER to be a valid ipaddr.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Update _IOE_SMB_BACKUP_AUTH_SERVER in DFSKERN's envvar file.

IOEW16088I	Passthrough Authentication: The primary server is: s1. The backup server is: s2.
-------------------	---

Explanation

Passthrough Authentication server values.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16089I	If Passthrough Authentication fails for a user, local authentication will be used.
-------------------	---

Explanation

This is an informational message at initialization indicating that if Passthrough Authentication does not allow a user to log on, an attempt will be made to log the user on with local authentication using RACF.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16090I	If Passthrough Authentication fails for a user, local authentication will not be used.
-------------------	---

Explanation

This is an informational message at initialization indicating that if Passthrough Authentication does not allow a user to log on, an attempt will be made to log the user on with local authentication using RACF.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16091A **SMB: Both Passthrough authentication servers are incorrect.**

Explanation

Verify that these ip addresses are correct.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Update `_IOE_SMB_AUTH_SERVER` and `_IOE_SMB_BACKUP_SERVER` in DFSKERN's envar file.

IOEW16092E **Sharename *ShareName* could not be shared for user *User* because path *Path* could not be resolved or accessed.**

Explanation

The dynamic sharename *ShareName* cannot be shared for user *User* because a component of the path *Path* was not found, a directory could not be accessed, or a filesystem within the path is not mounted or exported.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Make sure that all required filesystems are mounted or that you are running with the `_IOE_DYNAMIC_EXPORT` envar turned ON. Also check the path in the `smbtab` file to see if it can be resolved using the `cd` command locally within z/OS UNIX System Services.

IOEW16093E **Sharename *ShareName* could not be shared for user *User*.**

Explanation

The dynamic sharename *ShareName* cannot be shared for user *User* because of an internal problem within the system.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact your service representative.

IOEW16094E

Sharename *ShareName* could not be used because it already has *MaxUsers* users connected to it.

Explanation

The maximum number of concurrent users allowed to be connected to sharename *ShareName* has already been reached so an additional user has been denied access.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Increase the maximum in the smbtab file, set it to 0, or tell the user to try again later if you really want to limit the use of the share.

IOEW16095I

The primary passthrough authentication server status is *status*.

Explanation

Passthrough Authentication primary server status is displayed.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16096I

The backup passthrough authentication server status is *status*.

Explanation

Passthrough Authentication backup server status is displayed.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16097E

The input value for the server ipaddr must be 4 dotted decimal numbers.

Explanation

The input value for the server ipaddr must be 4 dotted decimal numbers.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEW16098I

The Passthrough socket connection wait timeout value is *number* seconds.

Explanation

This is the amount of time DFS will wait for a Passthrough connection before failing.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16099I

The Passthrough data wait timeout value is *number* seconds.

Explanation

This is the amount of time DFS will wait for Passthrough data before failing.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16100E

Both Passthrough Authentication server values are incorrect. Passthrough Authentication is being turned off until valid server values are entered.

Explanation

There are no valid servers.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Try pinging the servers by name. These values can be modified in **DFSKERN**'s envar file with the variables `_IOE_SMB_AUTH_SERVER` and `IOE_SMB_BACKUP_AUTH_SERVER`.

IOEW16101I**The Passthrough Authentication status is *status*.****Explanation**

The values are active or inactive.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16102I**Passthrough Authentication: The primary server computer name is: *s1*.
The backup server computer name is: *s2*.****Explanation**

Passthrough Authentication server values.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16103I**Passthrough Authentication: The domain name is: *s1*.****Explanation**

Passthrough Authentication domain value.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16104I

Passthrough Authentication is not active.

Explanation

Passthrough Authentication is not active. This is okay if it is not expected to be used. If it is expected to be used then it means that the environment variables for Passthrough Authentication were not correctly specified in the **dfskeynDFSKERN** envar file.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

If necessary, verify the environment variables for Passthrough Authentication.

IOEW16105E

Asynchronous sockets request *Request* on socket *socket* failed with return code *rc*, reason code *rsn*.

Explanation

An error occurred while the server issued a request on a communications socket.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If the problem continues, contact your service representative. The DFS server will need to be restarted after the communication problem is resolved.

IOEW16106A

Datagram services recvfrom failed with return code *rc*.

Explanation

An error occurred while the server issued a recvfrom request in the datagram services code.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Datagram services may be unavailable until the problem is resolved. Check to see if any other messages were issued in conjunction with this one. Additional information about the error is found in *z/OS UNIX System Services*

Messages and Codes. This error is usually due to a configuration problem or a z/OS UNIX problem. If you can't determine the cause of the problem, contact your service representative.

IOEW16107A

Name services recvfrom failed with return code rc.

Explanation

An error occurred while the server issued a recvfrom request in the name services code.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Name services may be unavailable until the problem is resolved. Check to see if any other messages were issued in conjunction with this one. Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If you can't determine the cause of the problem, contact your service representative.

IOEW16108A

Session services accept failed with return code rc.

Explanation

An error occurred while the server issued an accept request in the session services code.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Session services may be unavailable until the problem is resolved. Check to see if any other messages were issued in conjunction with this one. Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. This error is usually due to a configuration problem or a z/OS UNIX problem. If you can't determine the cause of the problem, contact your service representative.

IOEW16109I

DFS/SMB cannot enable the specified server.

Explanation

If a server has been disabled because it is not a valid server, then update **_IOE_SMB_AUTH_SERVER** or **_IOE_SMB_BACKUP_AUTH_SERVER** in **DFSKERN**'s envar file. A server is considered not valid if gethostbyaddr does not return a host name.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Try pinging the server or update environment variables.

IOEW16112A**Passthrough authentication not allowed because guest bit set when logon failed.****Explanation**

Passthrough authentication was not used for this logon. Passthrough authentication will not be used if the domain controller allows guests. In this case, local authentication is used.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEW16113A**Passthrough authentication not allowed because one logon without guest but another failed.****Explanation**

Passthrough authentication was not used for this logon. Passthrough authentication will not be used if the domain controller allows guests. In this case, local authentication is used.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEW16114A**Passthrough authentication not allowed because one logon allowed with guest but another without guest.****Explanation**

Passthrough authentication was not used for this logon. Passthrough authentication will not be used if the domain controller allows guests. In this case, local authentication is used.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEW16115A**Passthrough authentication not allowed because DC not setting guest bit.**

Explanation

Passthrough authentication was not used for this logon. Passthrough authentication will not be used if the domain controller allows guests. In this case, local authentication is used.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEW16116A Passthrough authentication not allowed because DC allowing guests.

Explanation

Passthrough authentication was not used for this logon. Passthrough authentication will not be used if the domain controller allows guests. In this case, local authentication is used.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEW16117A A netbios session request returned rc.

Explanation

An error occurred attempting to create a netbios session.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

The most common cause of this type of error is when the computer name of the domain controller computer is incorrect. This value is specified in **DFSKERN**'s envar file in the value for **_IOE_SMB_AUTH_SERVER_COMPUTER_NAME**. Check to see if other errors were issued in conjunction with this one. If the computer name is correct, rebooting the domain controller has been found to fix the problem sometimes. If you cannot determine the cause of the problem, contact your service representative.

IOEW16118A The primary authentication server ipaddr is: ip1.ip2.ip3.ip4. The backup authentication server ipaddr is: ip5.ip6.ip7.ip8.

Explanation

This message displays the passthrough servers' IP addresses.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16122A	An attempt by the SMB server to connect to the primary domain controller or the backup domain controller failed. Async connect failed with return code <i>rc</i> reason code <i>reason</i>.
-------------------	--

Explanation

An error occurred while the server issued a connect request in the session services code.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Check to see if any other messages were issued in conjunction with this one. Additional information about the error is found in *z/OS UNIX System Services Messages and Codes*. If you cannot determine the cause of the problem, contact your service representative.

IOEW16123A	The SMB server has lost communication with the primary or secondary domain controller.
-------------------	---

Explanation

An attempt to communicate with this server failed. Some errors may be recoverable and retrying the command may be all that is necessary. If examining the console log and verifying that the server machine is operational does not resolve the problem contact support.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Verify the server machine is operational and retry the command.

IOEW16125E	Malformed request received from socket <i>socket</i> from IP address <i>ip1.ip2.ip3.ip4</i>.
-------------------	---

Explanation

A request was received from a machine at the specified IP address, and the request was not formed in accordance with [RFC 1002, Protocol Standard for a NetBIOS Service on a TCP/UDP Transport: Detailed Specifications](#). The SMB server cannot process the request.

System action

The program continues. The socket connection to the machine which sent the malformed request is broken.

Severity

svc_c_sev_error

Administrator Response

Find the machine which corresponds to the specified IP address and determine if the machine is performing correctly.

IOEW16126E

Request contains incorrect header flags *flags*.

Explanation

The part of the request that does not conform to RFC1002 is the flags which are stored in the header. All bits in the flags field must be 0 except for the rightmost bit, which is a length extension bit.

System action

The program continues. The socket connection to the machine which sent the malformed request is broken.

Severity

svc_c_sev_error

Administrator Response

Find the machine which corresponds to the specified IP address and determine if the machine is performing correctly.

IOEW16127E

Request contains incorrect header type *type*.

Explanation

The part of the request which does not conform to RFC1002 is the type which is stored in the header. The type must be one of the following values:

x00

Session Messages

x81

Session Request

x82

Positive Session Response

x83

Negative Session Response

x84

Retarget Session Response

x85

Session Keep Alive

System action

The program continues. The socket connection to the machine which sent the malformed request is broken.

Severity

svc_c_sev_error

Administrator Response

Find the machine that corresponds to the specified IP address and determine if the machine is performing correctly.

IOEW16128E

Request contains incorrect length *msglen*. Header type=*type* flags=*flags* length=*hdrlen*.

Explanation

The part of the request which does not conform to RFC1002 is the length which is stored in the header. The server will not accept a request of size greater than 1024 bytes except for session messages, in which the type field in the header is x00.

System action

The program continues. The socket connection to the machine which sent the malformed request is broken.

Severity

svc_c_sev_error

Administrator Response

Find the machine which corresponds to the specified IP address and determine if the machine is performing correctly.

IOEW16129E

Passthrough Authentication for another user on socket *SocketNum* from IP address *ip1.ip2.ip3.ip4* has failed.

Explanation

An attempt to connect another user on the same communication socket has failed. Passthrough Authentication is being used and communications with the Domain Controller has failed and has reconnected. A new user cannot be authenticated until all previously existing user sessions have reauthenticated using the new connection to the Domain Controller. The SMB server will attempt to resolve this automatically as soon as all the existing user sessions on a communications socket have no open files. In the message text:

SocketNum

The socket number.

ip1.ip2.ip3.ip4

The IP address.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Normally, no action is required. As stated in the Explanation, the SMB server will disconnect the communications socket being used by the PC users as soon as it can. The PC users will then reconnect automatically on their next request. In the meantime, some authentication requests may fail until this is automatically resolved. If this automatic disconnect and reconnect of PC users does not occur in a reasonable period of time, it may be necessary for you to take an explicit action. You can attempt to drain the socket by stopping applications that are using it. The operator command MODIFY DFS,SEND DFSKERN,CLOSE,SMBSESS,*nn* (where *nn* is the socket number of the communication socket contained in this message) can be used to force the communications socket to fail. The next PC request will reconnect automatically.

IOEW16130A

Primary authentication server address *ip1.ip2.ip3.ip4* is not valid.

Explanation

An attempt was made to use an incorrect value for the primary authentication server IP address. In the message text:

ip1.ip2.ip3.ip4

The IP address.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Check the value supplied for the `_IOE_SMB_AUTH_SERVER` environment variable in the `envar` file located in the `/opt/dfslocal/home/dfskeɹn` directory. This IP address must be the address of an active Windows Domain Controller that is properly configured to authenticate users of the Distributed File Service SMB Server. This IP address can not be the address of any network interface adapter on the system where the SMB server is running. Also, be sure this IP address is not the loopback address, `127.x.x.x`, or the zero address - `0.0.0.0`.

IOEW16131A

Backup authentication server address *ip1.ip2.ip3.ip4* is not valid.

Explanation

An attempt was made to use an incorrect value for the backup authentication server IP address. In the message text:

ip1.ip2.ip3.ip4

The IP address.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Check the value supplied for the `_IOE_SMB_BACKUP_AUTH_SERVER` environment variable in the `envar` file located in the `/opt/dfslocal/home/dfskeɹn` directory. This IP address must be the address of an active Windows Domain Controller that is properly configured to authenticate users of the Distributed File Service SMB Server. This IP address can not be the address of any network interface adapter on the system where the SMB server is running. Also, be sure this IP address is not the loopback address, `127.x.x.x`, or the zero address - `0.0.0.0`.

IOEW16132I

DFSKERN accepted connection from *IpAddr* socket *SocketNum*.

Explanation

DFSKERN accepted an incoming SMB client connection. In the message text:

IpAddr

The client IP address.

SocketNum

The socket number.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16133A DFSKERN Duplicate client socket *SocketNum* from *IpAddr*.

Explanation

An incoming client connection used the same socket as an existing connection. This is an internal error. In the message text:

IpAddr

The client IP address.

SocketNum

The socket number.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact your IBM Service Representative.

IOEW16134I DFSKERN *AuthType* authenticated user *Domain/User* on *IpAddr* socket *SocketNum*.

Explanation

The SMB Server has successfully authenticated an SMB client. In the message text:

AuthType

The authentication type (SAF or passthrough).

Domain

The client domain.

User

The client user ID.

IpAddr

The client IP address.

SocketNum

The socket number.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16135I DFSKERN authentication failed for user *Domain/User* on *IpAddr* socket *SocketNum*.

Explanation

The SMB server has failed to authenticate a client because of unrecognized user ID or incorrect authentication data. In the message text:

Domain

The client domain.

User

The client user ID.

IpAddr

The client IP address.

SocketNum

The socket number.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Ensure the indicated workstation and user are authorized for SMB use. The user ID must be mapped to a z/OS user ID in the SMBIDMAP file. If your installation is using passthrough authentication, ensure the user ID and password are correct for the passthrough authentication domain controller. The SMB client should retry the authentication with a valid user ID and password.

IOEW16136I DFSKERN cancelling socket *SocketNum* request *BlockAddr*.

Explanation

The SMB server is closing a client communication session. Outstanding work request for incoming messages will be cancelled prior to closing the socket. In the message text:

SocketNum

The socket number.

BlockAddr

The request block address.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None

IOEW16137A DFSKERN cancel failed on socket *SocketNum* request *BlockAddr* return value is *RV*, return code is *RC*.

Explanation

The SMB server is closing a client communication session and the outstanding work requests could not be cancelled because of internal errors. The work unit is ignored and the session is closed abnormally. In the message text:

SocketNum

The socket number.

BlockAddr

The request block address.

RV

The return value.

RC

The return code.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact your IBM Service Representative.

IOEW16138I DFSKERN connected share *ShareName* to *IpAddr* socket *SocketNum*.

Explanation

The SMB Server has successfully connected an SMB client to an SMB share. In the message text:

ShareName

The SMB share name.

IpAddr

The client IP address.

SocketNum

The socket number.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None

IOEW16139I DFSKERN failed to connect share *ShareName* to *IpAddr* socket *SocketNum*.

Explanation

The SMB Server has failed to connect an SMB client to an SMB Share. The SMB Share name might be incorrect, the share might not be currently shared, or a problem might have occurred accessing the file system containing the share. Ensure the share name is correct, exists in the **smbtab**, and is currently able to be shared. Check for previously issued DFSKERN messages for a problem with the share. If the share name does not exist, the SMB client should retry with a valid share name. In the message text:

ShareName

The SMB share name.

IpAddr

The client IP address.

SocketNum

The socket number.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Correct the **smbtab** and use the **dfsshare** command if the share name is correct but not shared.

IOEW16142I

DFSKERN closing idle client session *IpAddr* socket *SocketNum*.

Explanation

The SMB Server has disconnected an idle SMB client. The client has no open files and has been idle longer than the idle session time-out value (see the **_IOE_SMB_IDLE_TIMEOUT** environment variable in *z/OS Distributed File Service SMB Administration*). In the message text:

IpAddr

The client IP address.

SocketNum

The socket number.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None

IOEW16143I

The environment variable *envar* found in file *file* is not an SMB envar and will not be used by the SMB server.

Explanation

The message was received because the SMB server checks for incorrect environment variable names. In the message text:

envar

The environment variable name.

file

The environment variable file.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Run the **dfssyntax** utility to check the environment variable file for the incorrect environment variable and if needed, correct it. You can find the default environment variable file in `/opt/dfslocal/home/dfskern/envvar` and a list of valid environment variables in the topic on environment variables in *z/OS Distributed File Service SMB Administration*.

IOEW16144E

The value *value* for environment variable *envvar* found in file *file* is not valid and will not be used by the SMB server.

Explanation

The message was received because the SMB server checks for incorrect environment variable values. In the message text:

value

The incorrect value.

envvar

The environment variable name.

file

The environment variable file.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Run the **dfssyntax** utility to check the environment variable file for the incorrect environment variable and if needed, correct it. You can find the default environment variable file in `/opt/dfslocal/home/dfskern/envvar` and a list of valid environment variables in the topic on environment variables in *z/OS Distributed File Service SMB Administration*.

IOEW16145E

Errors were found in the environment variable file *file*.

Explanation

The message was received because the SMB server checks for incorrect environment variables. In the message text:

file

The environment variable file.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Run the **dfssyntax** utility to check the environment variable file for the incorrect environment variable and if needed, correct it. You can find the default environment variable file in `/opt/dfslocal/home/dfskeyn/envvar` and a list of valid environment variables in the topic on environment variables in *z/OS Distributed File Service SMB Administration*

IOEW16146E

Environment variable file *file* could not be opened.

Explanation

The checking of the environment variables could not be completed because the environment variable file could not be opened. In the message text:

file

The environment variable file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Check that the environment variable file exists and is not damaged.

IOEW16147E

Default environment variable file *file* could not be found.

Explanation

The checking of the environment variables could not be completed because the default environment variable file could not be opened. In the message text:

file

The environment variable file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Check that the environment variable file exists and is not damaged.

IOEW16148E

Line *line* of environment variable file *file* is incorrect. Blank lines are not allowed.

Explanation

This message was received because the **dfssyntax** command checks the environment variable file for blank lines. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error in the file.

IOEW16149E

Line *line* of environment variable file *file* is incorrect. The line is too long. The maximum line length is *maxlen*.

Explanation

This message was received because the **dfssyntax** command checks the environment variable file for maximum line length. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

maxlen

The maximum line length.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error in the file.

IOEW16150E

Line *line* of environment variable file *file* is incorrect. The format of the line is incorrect. The line format should be variable=value.

Explanation

This message was received because the **dfssyntax** command checks the environment variable file for the correct format, which is variable=value, with no spaces. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error in the file.

IOEW16151E Line *line* of environment variable file *file* is incorrect. Trailing blanks are not allowed.

Explanation

This message was received because the **dfssyntax** command checks the environment variable file for trailing blanks. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error in the file.

IOEW16152I Line *line* of environment variable file *file* is incorrect. The environment variable *envname* is not a known SMB environment variable.

Explanation

This message was received because the **dfssyntax** command checks the environment variable file for documented SMB environment variables. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

envname

The environment variable name.

System action:

The program continues.

Severity

svc_c_sev_warning

Administrator Response

Determine if the environment variable is incorrect. You can find a list of valid environment variables in the topic on environment variables in *z/OS Distributed File Service SMB Administration*.

IOEW16153E

Line *line* of environment variable file *file* is incorrect. The value *envname* for environment variable *envvalue* is an incorrect type.

Explanation

This message was received because the **dfssyntax** command checks that each environment variable value in the environment variable file has the correct type. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

envname

The environment variable name.

envvalue

The environment variable value.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the value for the environment variable. You can find a list of valid environment variables in the topic on environment variables in *z/OS Distributed File Service SMB Administration*

IOEW16154E

Line *line* of environment variable file *file* is incorrect. The value *envvalue* for environment variable *envname* is out of range.

Explanation

This message was received because the **dfssyntax** command checks that each environment variable value in the environment variable file is within the defined range for the environment variable. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

envvalue

The is the envvar value.

envname

The environment variable name.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the value for the environment variable. You can find a list of valid environment variables in the topic on environment variables in *z/OS Distributed File Service SMB Administration*.

IOEW16155I

Line *line* of environment variable file *file* is incorrect. The value *envvalue* for environment variable *envname* will be converted to upper case and used, but in the future it should be in upper case.

Explanation

This message was received because the **dfssyntax** command checks that each environment variable value is in upper case. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

envvalue

The environment variable value.

envname

The environment variable name.

System action:

The program continues.

Severity

svc_c_sev_warning

Administrator Response

Correct the value for the environment variable. You can find a list of valid environment variables in the topic on environment variables in *z/OS Distributed File Service SMB Administration*.

IOEW16156E

Line *line* of environment variable file *file* is incorrect. The continuation character '\ ' is not allowed on the last line of the file.

Explanation

This message was received because the **dfssyntax** command checks that the last line of the environment variable file does not contain a continuation character. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error in the file.

IOEW16157I

Syntax checking of environment variable file *file* has completed. Review and correct any previously listed errors.

Explanation

The **dfssyntax** command has completed. If there were any errors in the environment variable file, they will be listed. Please correct the errors and run the **dfssyntax** command again. In the message text:

file

The environment variable file.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Correct any errors in the environment variable file. You can find a list of valid environment variables in the topic on environment variables in *z/OS Distributed File Service SMB Administration*.

IOEW16158I

The value *value* for environment variable *envar* found in file *file* should be in upper case.

Explanation

The message was received because the SMB server checks for incorrect environment variable values. The value found will be converted to upper case and used, but the value should be entered in upper case. In the message text:

value

The incorrect value.

envar

The environment variable name.

file

The environment variable file.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Run the **dfssyntax** utility to check the environment variable file for the incorrect environment variable and correct it. You can find a list of valid environment variables in the topic on environment variables in *z/OS Distributed File Service SMB Administration*.

IOEW16159E

The dfssyntax utility failed to verify the envar file.

Explanation

The message was received because the **dfssyntax** utility could not process the envar file.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct any previously listed errors and run the **dfssyntax** utility again.

IOEW16160E

Environment variable file not found.

Explanation

This message was received because SMB environment variable syntax checking was requested and neither the SMB environment variable file or the default SMB environment variable file could be found.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Ensure the system can access the environment variable file. The default environment variable file is normally found at `/opt/dfslocal/home/dfskeyn/envar`, but this location can be altered by specifying a value for the `_EUV_HOME` envvar in the `dfscntl` Daemon Configuration File located at `/opt/dfslocal/etc/ioepdcf`. Refer to the topic on environment variables in *z/OS Distributed File Service SMB Administration*.

IOEW16161E

Line *line* of environment variable file *file* is incorrect. Comment lines are not allowed in environment variables spanning multiple lines.

Explanation

This message was received because the **dfssyntax** command checks for imbedded comments in multi-line environment variables. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error in the file.

IOEW16162E

Line *line* of environment variable file *file* is incorrect. The line is missing a newline character.

Explanation

This message was received because the **dfssyntax** command checks for a newline character on each line of the file. In the message text:

line

The line number that is incorrect.

file

The environment variable file.

Chapter 7. IOEXnnnnnt: File Exporter (dfsexport)

This section contains messages that result from the File Exporter (**dfsexport**) processing.

IOEX18000A **Incorrectly formed or incomplete dfstab entry: *LineContents*.**

Explanation

An error was encountered while parsing the dfstab file. The contents of the line are shown along with the message.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the syntax error in the dfstab file and enter the command again.

IOEX18001A **Incorrect aggregate ID on dfstab entry: *LineContents*.**

Explanation

The line *LineContents* in the dfstab file contains an incorrect aggregate ID. The aggregate ID must be a valid positive integer.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Provide an appropriate aggregate ID and enter the command again.

IOEX18002A **Incorrect fileset ID on dfstab entry: *LineContents*.**

Explanation

The line *LineContents* in the dfstab file contains an incorrect fileset ID. The fileset ID must be two positive integers separated by double commas, for example: 0,,14.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Provide an appropriate fileset ID and issue the command again.

IOEX18003A

Dfsexport: Insufficient memory for dfstab file name.

Explanation

There is not enough memory to parse the dfstab file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Restart the program with a larger virtual storage size.

IOEX18101A

Dfsexport: cannot use both '-all' and '-aggregate'.

Explanation

The **dfsexport** program determined that both **'-all'** and **'-aggregate'** were specified on the command line and only one is allowed.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Restart the program with valid parameters.

IOEX18102A

Dfsexport: can only use '-force' with '-detach.'

Explanation

The **dfsexport** program determined that the **'-force'** option was specified but **'-detach'** was not. **'-force'** can only be used if **'detach'** is also specified.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Restart the program with valid parameters.

IOEX18103A**Dfsexport: Must either be root or be permitted to BPX.SUPERUSER to run this program.****Explanation**

To run the **dfsexport** program, the user must either have root or superuser authority, or be permitted to the BPX.SUPERUSER facilities class.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Restart the program with proper authority.

IOEX18104A**Dfsexport: Unable to lock 'DfstabFile': code *ReturnCode*. Ending.****Explanation**

Cannot lock the dfstab file - *DfstabFile*. The return code of the C flock function is provided in *ReturnCode*.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Try entering the command again. If the problem continues, try to determine if another user has the file locked.

IOEX18105A**Dfsexport: Unable to export any aggregates.****Explanation**

The user specified the '**-all**' parameter to the **dfsexport**, program but no aggregates were exported.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Check the dfstab file to determine if there were any aggregates meeting the criteria on the command line. There may not be any aggregates meeting the criteria.

IOEX18106A**Dfsexport: no aggregate for device *aggrId*.**

Explanation

The device *aggrId* is not a valid aggregate known to **dfsexport**. It is not listed in the dfstab file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Verify that the device *aggrId* is listed in the dfstab file and enter the command again.

IOEX18107A	Dfsexport: DeviceName:AggrName (id AggrId): Already attached: cannot reattach.
-------------------	---

Explanation

A request was made to export aggregate *AggrName* when the aggregate was already exported.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

The aggregate was already exported and the program ended but there may be some aggregates that were not exported. Enter **dfsexport** again specifying those aggregates that were not exported. To see a list of the aggregates already exported, enter **dfsexport** with no other arguments.

IOEX18108A	Dfsexport: DeviceName:AggrName (id AggrId): Partial duplication with attached aggregate: cannot attach.
-------------------	--

Explanation

A request was made to export aggregate *AggrName* but the aggregate name, ID, or block device name partially match an aggregate that is already being exported.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Restart **dfsexport** with an aggregate that does not match currently exported aggregates.

IOEX18109A	Dfsexport: Unable to attach DeviceName:AggrName (ErrorMsg) Reason Code RsnCode. Ignoring request.
-------------------	--

Explanation

The aggregate *AggrName* cannot be exported for the reason given in *ErrorMsg* and *RsnCode*.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Look up the *RsnCode* in [z/OS UNIX System Services Messages and Codes](#) to determine what the problem is.

IOEX18110I **Dfsexport: DeviceName:AggrName: Attached successfully.**

Explanation

The aggregate *AggrName* exported successfully.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18111A **Cannot list aggregates: ErrorMsg.**

Explanation

The program cannot get a list of aggregates being exported by the server.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Try issuing the command again. The error message *ErrorMsg* may provide guidance in correcting the problem.

IOEX18112I **Attention: Unable to get volId for DeviceName; code=ReturnCode.**

Explanation

The program cannot get the fileset ID for device *DeviceName*.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

Try issuing the command again. If the problem continues, contact the service representative.

IOEX18113I **Attention: The UFS aggregate *DeviceName* has *Number* filesets.****Explanation**

The UFS aggregate has more than one fileset; only one is allowed.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

Try issuing the command again. If the problem continues, contact the service representative.

IOEX18114I **Dfsexport: *DeviceName*, *Type*, *Aggregate*, *Filesethigh*, *Fileset-low*****Explanation**

A list of currently exported aggregates is displayed.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18115A **Dfsexport: Cannot get host name: *ErrorMsg*.****Explanation**

dfsexport cannot get the host name of the server.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Use the information in the error message to correct the problem, then try issuing **dfsexport** again. If the problem continues, contact the service representative.

IOEX18116A

Dfsexport: Cannot get host entry: *ErrorMsg*.

Explanation

dfsexport cannot get the host entry for the server.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Use the information in the error message to correct the problem, then try issuing **dfsexport** again. If the problem continues, contact the service representative.

IOEX18117A

Dfsexport: Cannot get cell name: *ErrorMsg*.

Explanation

dfsexport cannot get the name of the cell the server belongs to.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Use the information in the error message to correct the problem, then try issuing **dfsexport** again. If the problem continues, contact the service representative.

IOEX18118A

Dfsexport: Cannot get host name: *ErrorMsg*.

Explanation

dfsexport cannot get the principal name of the server.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Use the information in the error message to correct the problem, then try issuing **dfsexport** again. If the problem continues, contact the service representative.

IOEX18119A

Dfsexport: Unable to detach DeviceName:AggrName (ErrorMsg).

Explanation

dfsexport encountered an error detaching aggregate *AggrName*.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Use the information in the error message to correct the problem, then try issuing **dfsexport** again. If the problem continues, contact the service representative.

IOEX18120A

Dfsexport: did not detach any aggregates.

Explanation

The **'-detach -all'** options of **dfsexport** were issued but no aggregates were successfully detached. Either there are no currently exported aggregates that meet the other command line criteria, or there were failures detaching the aggregates. If failures occurred, this message will be preceded by other messages detailing the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

If there were preceding error messages, then refer to the response section of those messages for recommended action. If not then no aggregates met the criteria for detach, and there is no error.

IOEX18121A

Dfsexport: Unable to detach Aggr: aggregate not found.

Explanation

The aggregate *Aggr* cannot be detached because it was not attached to the server.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Ensure that aggregate was specified correctly; if it was, then no additional action is required.

IOEX18122I

Dfsexport: Revoking tokens for filesets on aggregate *AggrId*.

Explanation

The request to detach aggregate ID *AggrId*, requires that tokens held by clients be revoked.

System action

The program ends.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18123I

Dfsexport: Cannot enumerate all filesets.

Explanation

A full list of filesets on the aggregate cannot be obtained because of a request to detach an aggregate.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

If the detach succeeds then no action is required. If additional messages are presented that detail the problem, consult those messages for an appropriate response.

IOEX18124E

Dfsexport: Cannot revoke tokens for fileset

Explanation

The server is unable to revoke all the client tokens in response to a request to detach an aggregate.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

If the **'-force'** option was specified, no additional action is required because the detach will occur. Otherwise, the command must be entered again, specifying the **'-force'** option to detach the aggregate.

IOEX18125E

Dfsexport: Unable to release tokens for fileset.

Explanation

The server is unable to return tokens for a fileset on the aggregate because the aggregate is not attached.

System action

The program continues.

Severity

svc_c_sev_warning

Administrator Response

Refer to the error messages presented with this one to determine if a response is required.

IOEX18126A

Cannot set up dfsexport signal handling.

Explanation

Exception handling cannot be initialized for the **dfsexport** program.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative.

IOEX18127A

Syscall for detach return code is : *syscall_return_code*.

Explanation

The attempt to detach the aggregate failed.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Contact the service representative if problem continues.

IOEX18200A

Incorrectly formed or incomplete smbtabs entry: *LineContents*

Explanation

An error was encountered while parsing the smbtab file. The contents of the line are shown along with the message.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the syntax error in the smbtab file and enter the command again.

IOEX18201A **Incorrect aggregate ID on smbtab entry: *LineContents*.**

Explanation

The line *LineContents* in the smbtab file contains an incorrect aggregate ID. The aggregate ID must be a valid positive integer.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Provide an appropriate aggregate ID and enter the command again.

IOEX18202A **Incorrect fileset ID on smbtab entry: *LineContents*.**

Explanation

The line *LineContents* in the smbtab file contains an incorrect fileset ID. The fileset ID must be two positive integers separated by double commas, for example: 0 , , 14.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Provide an appropriate fileset ID and enter the command again.

IOEX18203A **Dfsexport: Insufficient memory for smbtab file name.**

Explanation

There is not enough memory to parse the smbtab file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Restart the program with a larger virtual storage size.

IOEX18204A **Dfsexport: Error opening file: smbtab.****Explanation**

The /opt/dfslocal/var/dfs/smbtab file cannot be found.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the problem and reissue command.

IOEX18205A **Cannot list shares: *ErrorMsg*.****Explanation**

The program cannot get a list of the sharenames being shared by the server.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Try issuing the command again. The error message *ErrorMsg* may provide guidance in correcting the problem.

IOEX18206A **Cannot list shares: *ErrorMsg*.****Explanation**

The program cannot get a list of the file systems being shared by the server.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Try issuing the command again. The error message *ErrorMsg* may provide guidance in correcting the problem.

IOEX18207A

Dfsshare: no sharename *mntp* found in smbtab.

Explanation

The sharename *mntp* is not a valid file system known to the **dfsshare** program. It is not listed in the smbtab file.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Verify that the sharename *mntp* is listed in the smbtab file and enter the command again.

IOEX18208A

Dfsshare: *ShareName*: Already shared, cannot reshare.

Explanation

A request was made to share file system *ShareName* when the file system was already shared.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

The file system was already shared and the program ended but there may be some aggregates that were not exported. Enter the **dfsshare** command again, specifying those share names that were not shared. To see a list of the file systems already shared, enter the **dfsshare** command with no arguments.

IOEX18209A

Dfsshare: Unable to unshare *Share*: share not found.

Explanation

The share *Share* cannot be unshared because it was not previously shared.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Ensure that **-sharename** was specified correctly; if it was, then no additional action is required.

IOEX18210I

Dfsexport: DeviceName:AggrName: Attached successfully.

Explanation

The aggregate *AggrName* exported successfully.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18211A

Dfsshare: did not unshare any filesystems.

Explanation

The **'-detach -all'** options of the **dfsshare** command were specified, but there were no file systems unshared successfully. Either there are no currently shared file systems that meet the other command line criteria, or there were failures unsharing them. If failures occurred, this message will be preceded by other messages detailing the error.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

If there were preceding error messages, refer to the response section of those messages for the recommended action. If there were no preceding messages, then no shares met the detach criteria and an error does not exist.

IOEX18212A

Dfsshare: Incorrect type: Type specified.

Explanation

The **'-type'** parameter specified to the **dfsshare** command must be UFS or PRT.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Check the command line input and correct the data if necessary.

IOEX18215I

Dfsshare:

Explanation

A list of currently shared filesystems is displayed.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18217I

Sharename *ShareName* on device *DeviceName* shared successfully.

Explanation

The netname *ShareName* was shared successfully.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18218A

Sharename *ShareName* has already been shared.

Explanation

The sharename *ShareName* cannot be shared because it is already shared.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Check the smbtab file for duplicates.

IOEX18219A

Sharename *ShareName* could not be shared.

Explanation

The sharename *ShareName* cannot be shared due to an error within the system.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Check the smbtab file for duplicates.

IOEX18220I Sharename *ShareName* on device *DeviceName* detached successfully.**Explanation**

The sharename *ShareName* was detached successfully.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18221A Sharename *ShareName* cannot be found.**Explanation**

The sharename *ShareName* cannot be detached because it is not already shared.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Look at the list of current shares.

IOEX18222A Sharename *ShareName* cannot be detached.**Explanation**

The sharename *ShareName* cannot be detached due to an error within the system.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Look at the list of current shares.

IOEX18223A Sharename *ShareName* cannot be shared because path *Path* does not exist on device *DeviceName*.

Explanation

The sharename *ShareName* cannot be shared because the path specified in the smbtab file, *Path*, does not exist on the device, *DeviceName*.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Fix the smbtab file so that the path is valid.

IOEX18224I Dfsexport: *DeviceName:AggrName*: Detached successfully.

Explanation

The aggregate *AggrName* detached successfully.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18225A Sharename *ShareName* cannot be shared because SMB services are not on.

Explanation

The sharename *ShareName* cannot be shared because the **_IOE_PROTOCOL_SMB** environment variable was not set to ON in the dfskernel envar file.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Set `_IOE_PROTOCOL_SMB=ON` in `/opt/dfslocal/home/dfskern/envar` and restart DFS.

IOEX18226A Aggregate *DeviceName:AggrName* (id *AggrId*) already defined.

Explanation

In the definition of aggregate *AggrName* in `/opt/dfslocal/var/dfs/dfstab`, the aggregate ID specified is already defined.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the aggregate definitions in `/opt/dfslocal/var/dfs/dfstab` and restart DFS.

IOEX18227A Dfsexport: Unable to query *DeviceName:AggrName* (*ErrorMsg*).

Explanation

The aggregate *AggrName* cannot be queried for the reason given in *ErrorMsg*.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Try restarting DFS using the error message *ErrorMsg* for guidance.

IOEX18228I Aggregate: *DeviceName:AggrName*: Queried successfully.

Explanation

The aggregate *AggrName* is queried successfully.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18229A Thread creation for dynamic fileset exporting failed: error code *error_code*.

Explanation

The attempt to create a thread to communicate with the Fileset Location Database (managed by the FLSERVER) ended with the specified error code in the message.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Determine the cause of the error and fix the problem. Restart the DFSKERN process.

IOEX18230A Fileset name *aggrid* for aggregate id *filesetname* does not match file system name *filesystemname*.

Explanation

To run with **DFSKERN** environment variable **_IOE_DYNAMIC_EXPORT=ON**, the fileset name in the FLDB must be set to the file system name defined in the devtab and dfstab entries for this file system. This can also occur if the fileset ID in the FLDB does not match the fileset ID in the dfstab.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Determine the cause of the error and fix the problem. Restart the **DFSKERN** process.

IOEX18231I Volume ID *high_valid,,low_valid* already used for volume *fileset1*, it cannot be used for *fileset2*.

Explanation

While processing dfstab entries, it has been determined that a volume ID is being used twice. This is not allowed. The filesets specified in the message text are the ones that have the duplicate volume IDs. The second one will be ignored.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Determine the cause of the error and correct the problem. DFS/SMB considers the fileset in error to be the second one listed in the message. Any changes to the dfstab should be made with this second fileset definition.

IOEX18232A

Share name contains illegal characters: *ShareName*

Explanation

Illegal characters were encountered while parsing the share name. The share name is shown along with the message.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Choose another share name in the smbtab file and enter the command again.

IOEX18233I

Fileset name *fileset_name* already used with fileset id *high_valid,,low_valid*, it cannot be used with *fileset1,,fileset2*.

Explanation

While processing dfstab and devtab entries, it has been determined that a volume name is being used twice. This is not allowed. The filesets IDs specified in the message text are the ones that have the duplicate volume names. The second one will be ignored.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Determine the cause of the error and correct the problem. DFS/SMB considers the fileset in error to be the second one listed in the message. Any changes to the dfstab or devtab should be made with this second fileset definition.

IOEX18234I

Variable *variable_name* is set to *variable_value*.

Explanation

The file exporter is using the specified value for the variable. The value is either the value read from the envar file or the default value if the value in the envar file is incorrect or missing.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

0014 **The File Exporter Exit Routine detected an invalid osictl request.**

Action

Contact the service representative.

0017 **The File Exporter Exit Routine detected an invalid change debug argument length.**

Action

Contact the service representative.

0018 **The File Exporter Exit Routine detected an invalid lockctl option parameter.**

Action

Contact the service representative.

DF02rrrr reason codes

0001 **The File Exporter Exit Routine sleep function could not get a wait structure from the Cell Pool.**

Action

Contact the service representative.

DF03rrrr reason codes

0001 **The File Exporter Exit Routine made an invalid request.**

Action

Contact the service representative.

DF04rrrr reason codes

0001 **DFSKERN vnode cache is too small for the number of file systems exported and the specified virtual memory cache maximum files.**

Action

The maximum number of file systems attached is the vnode cache size (`_IOE_VNODE_CACHE_SIZE` environment variable) minus VM cache maximum files (`_IOE_VM_MAX_FILES` environment variable) minus 320. Increase the vnode cache environment variable or decrease the VM files maximum. For details, see the topic on environment variables in *z/OS Distributed File Service SMB Administration*.

0002 **The File Exporter Exit Routine made an invalid request. This is not supported.**

Action

To export this zFS file system, you must run zFS specifying `sysplex=filesys` in the IOEFSPRM file and ensure that the zFS file system is mounted non-sysplex aware. See *z/OS File System Administration* for further details.

Action

Contact the service representative.

600A **File system not mounted.**

Action

Ensure that the file system is mounted. Retry the operation. If it continues to fail, contact the service representative.

600B **Vget failure not yet reported.**

Action

Contact the service representative.

600C **Vget attributes fetch failure.**

Action

Contact the service representative.

600D **Access failure.**

Action

Contact the service representative.

600E **Failure getting attr specified in OSI struct.**

Action

Contact the service representative.

600F **Failure getting index on volstat.**

Action

Contact the service representative.

6010 **Bad unique on vol_vget.**

Action

Contact the service representative.

6011 **No vnode found for FID.**

Action

This reason code, when coupled with a return code of ENOENT, simply means that an operation was presented to zFS for a previously deleted file. If a different return code is presented, then contact the service representative.

6012 **Could not open anode for vnode.**

Action

This could occur if a task was trying to open a file that was removed by another task at the same time. It can also occur if there was a recent system or zFS outage. If however, it repeatedly occurs and a recent system outage did not occur, then contact the service representative.

Action

Contact the service representative.

601E **Create failure.**

Action

Contact the service representative.

601F **Vnode operation failed to get vnode token in a directory.**

Action

Contact the service representative.

6020 **Link failure.**

Action

Contact the service representative.

6021 **Try to hard link a directory, not allowed.**

Action

You cannot link to a directory. Correct the object being linked and try again.

6023 **Error creating link, the link name already exists.**

Action

Ensure that the link name does not already exist.

6024 **A write operation to a read only filesystem.**

Action

Ensure that the file system is mounted read-write.

6025 **Error looking up a file.**

Action

Ensure the object exists. If it does, contact the service representative.

6026 **Error fetching file attributes.**

Action

Contact the service representative.

6027 **A lookup attempted on an object that was not a directory.**

Action

Ensure that the name containing the object being looked up is a directory.

6028 **A required name entry in a directory was not found.**

Action

If the return code is 129 (ENOENT), correct the directory name and try again. Otherwise, contact the service representative.

6029 **Entry in directory found but inode was stale.****Action**

Contact the service representative.

602A **Unexpected error searching a directory.****Action**

Contact the service representative.

602B **Error on mkdir request.****Action**

Contact the service representative.

602C **Name given by mkdir already exists.****Action**

Ensure that the directory name being created does not already exist.

602D **Error creating a sub-directory anode.****Action**

Ensure that you are not trying to create more than 65533 subdirectories in a version 4 directory. Otherwise, contact the service representative.

602E **Error adding . and . . entries to the directory.****Action**

Contact the service representative.

6030 **Error truncating file during open.****Action**

Contact the service representative.

6031 **Try to remove link from a directory, not allowed.****Action**

Ensure that the pathname is not a directory.

6032 **Check 2 owners error.****Action**

Ensure that the user has permission to do the operation.

6033 **Attempt to delete a non-empty directory.**

Action

Ensure that the symlink name does not already exist.

6047 **Error writing symlink contents.**

Action

Contact the service representative.

6048 **Attempt to read past EOF.**

Action

Ensure that you are not attempting to read past the end of the file.

6049 **General file read error.**

Action

Contact the service representative.

604A **General file write error.**

Action

Check the return code to determine why the write failed.

604B **Uiomove failed, probably due to user address space errors.**

Action

Contact the service representative.

604C **Process limit was exceeded on write request.**

Action

Ensure that the user is not attempting to exceed the process file size limit.

604D **Process limit was exceeded because it was not allowed to increase size of file.**

Action

Ensure that you are not attempting to exceed the process file size limit.

604E **General VM cache failure.**

Action

If the return code is ENOSPC (133), the file system or aggregate is full. If this is the case, make more space available. Otherwise, contact the service representative.

604F **Readlink failure.**

Action

Contact the service representative.

6050 **Readlink for a vnode that was not a symlink.**

Action

Ensure that the target of a readlink is actually a symbolic link.

6051 **Readdir error.**

Action

Contact the service representative.

6052 **File truncate error.**

Action

Contact the service representative.

6053 **File sync error.**

Action

Contact the service representative.

6054 **Syntax error in PARM for MOUNT request.**

Action

Ensure that the PARM parameter string on the MOUNT command for the zFS file system is syntactically correct. MOUNT PARMs are case sensitive.

6055 **Error with issuing a LOCATE call on an HFS-compat aggregate.**

Action

Ensure that the zFS file system named on the MOUNT command has the same name as the VSAM Linear Data Set (and the HFS compatibility mode aggregate) that contains the file system.

6056 **HFS-compat mount, - name not VSAM LDS.**

Action

Ensure that the zFS file system named on the MOUNT command has the same name as the VSAM Linear Data Set (and the HFS compatibility mode aggregate) that contains the file system.

6057 **HFS-compat mount, - syntax in IOEFSPRM file.**

Action

Ensure that the syntax of the AGGRFULL option in the IOEFSPRM file is valid.

6058 **HFS-compat mount, - error attaching aggregate or was found not to be HFS-compat.**

Action

Ensure that the HFS compatibility mode aggregate that is being MOUNTed has a single read-write file system and the file system name is the same as the aggregate name (that is, the VSAM Linear Data Set name). This can also mean that you attempted to move ownership of a zFS sysplex-aware read-write file system to a system that does not support zFS sysplex-aware (that is, it is z/OS V1R12 but is running sysplex=off). This is not allowed.

A mount of a zFS file system that fails with return code 138 (ENXIO) can indicate that the file system is already mounted on another system that is not in the same sysplex but is sharing DASD accessibility. zFS prevents data corruption by not allowing a zFS file system to be mounted read-write on two systems that are not in a shared

file system environment. In this case, verify that the file system is not already mounted read-write on another system. zFS prevents a system from writing to a zFS aggregate that is mounted read-write on another system. Another possible cause is the VSAM linear data set was not formatted as a ZFS file system. Also, look in the system log for messages from other z/OS components related to this aggregate (data set) name. Otherwise, contact the service representative.

605A **Attempt to mount a file system R/W on a R/O aggregate.**

Action

Ensure that a file system that is contained in an aggregate that has been attached read-only is mounted read-only. Or, attach the aggregate read-write.

605B **Attempt to mount a file system R/W that is inherently R/O.**

Action

Contact the service representative.

605C **Fsfull config option syntax error in config file.**

Action

Ensure that the syntax of the FSFULL option in the IOEFSPRM file is valid.

605D **No root directory found for file system.**

Action

Contact the service representative.

605E **File system busy or unable to be mounted.**

Action

There is another operation in progress that conflicts with this operation. Try your request again. If it continues to fail, contact the service representative.

6060 **Invalid PFS control request command.**

Action

Ensure that the application is specifying a valid pfsctl request.

6061 **Failed obtaining request block for cross memory call.**

Action

Contact the service representative.

6062 **Failed obtaining data buffer for cross memory call.**

Action

Contact the service representative.

6063 **Failed obtaining data from the user buffer.**

Action

Contact the service representative.

Action

Contact the service representative.

607A **Block is past the allocated end of the container.**

Action

Contact the service representative.

607B **Block address is too large.**

Action

Contact the service representative.

607C **Specified device already has an aggregate.**

Action

Contact the service representative.

6080 **Specified anode index already exists.**

Action

Contact the service representative.

6081 **A transaction must be specified.**

Action

Contact the service representative.

6082 **Block is interior to the container but is not allocated.**

Action

Contact the service representative.

6083 **Specified anode index does not exist.**

Action

Contact the service representative.

6084 **The anode does not contain a file.**

Action

Contact the service representative.

6085 **The container does not contain a volume table.**

Action

Contact the service representative.

6086 **The bitmap is not consistent with the superblock.**

Action

Contact the service representative.

6091 **Supplied status data extends too far.**

Action

Contact the service representative.

6093 **Insufficient quota on volume.**

Action

Contact the service representative.

6094 **Copy-on-write is not available for this container.**

Action

Contact the service representative.

6095 **Block allocation of log is in error.**

Action

Contact the service representative.

6096 **Block allocation for bitmap ended in error.**

Action

Contact the service representative.

6097 **Error in copy-on-write reference.**

Action

Contact the service representative.

6098 **Management of multiple quota procedures not yet implemented.**

Action

Contact the service representative.

6099 **Initialization entry point called more than once.**

Action

Contact the service representative.

609A **Object or module not properly initialized.**

Action

Contact the service representative.

609B **Tried to insert a block that is already allocated.**

Action

Contact the service representative.

60A9 Aggregate has some open volumes.

Action

Contact the service representative.

60AA Volume has some open anodes.

Action

Contact the service representative.

60AB A volume being deleted is still open.

Action

Contact the service representative.

60AC New length is inconsistent with storage method.

Action

Contact the service representative.

60AF Iterator value indicates previous is last.

Action

Contact the service representative.

60B0 Aux type inappropriate for non-directory files.

Action

Contact the service representative.

60B1 Anode block and offset pair is not valid.

Action

Contact the service representative.

60B9 Block reference to indirect block has inconsistent header.

Action

Contact the service representative.

60BC Event already in set.

Action

Contact the service representative.

60BD Event still part of some set.

Action

Contact the service representative.

60BE	Arguments are either incorrect, inconsistent, or not allowed.
-------------	--

Action

Contact the service representative.

60C0	Device does not exist.
-------------	-------------------------------

Action

Contact the service representative.

60C2	The log/buffer package was re initialized.
-------------	---

Action

Contact the service representative.

60C3	The specified memory region is too small.
-------------	--

Action

Contact the service representative.

60C4	The buffer is not valid.
-------------	---------------------------------

Action

Contact the service representative.

60C5	The log has not been recovered.
-------------	--

Action

Contact the service representative.

60C6	The specified log was not valid.
-------------	---

Action

Contact the service representative.

60C7	The specified transaction is not valid.
-------------	--

Action

Contact the service representative.

60C8	The specified transaction is no longer valid.
-------------	--

Action

Contact the service representative.

60C9	The specified buffer could not be deleted.
-------------	---

Action

Contact the service representative.

60E7 Recovery is complete.

Action

Contact the service representative.

60E8 Recovery must be run on this aggregate.

Action

Contact the service representative.

60E9 The requested operation would block.

Action

Contact the service representative.

60EA A log page with an incorrect pass number was found.

Action

Contact the service representative.

60EB Aggregate is already attached.

Action

The aggregate specified is already attached. Ensure you have specified the correct aggregate name.

60ED Aggregate is not attached.

Action

Contact the service representative.

60EE Aggregate may need to be recovered.

Action

Contact the service representative.

60EF File System is locally mounted.

Action

Contact the service representative.

60F2 Name is too long.

Action

Contact the service representative.

60FE Out of memory.

Action

Contact the service representative.

6108 Defined parameters exceed the maximum.

Action

Contact the service representative.

6109 Internal parsing error.

Action

Contact the service representative.

610A Too many values specified after a **CMD_SINGLE** switch.

Action

Contact the service representative.

610B Too many parameters specified.

Action

Contact the service representative.

610C Two or more mutually exclusive parameters used.

Action

Contact the service representative.

610D Specify the minimum number of arguments.

Action

Contact the service representative.

610E Unrecognized or ambiguous command name.

Action

Contact the service representative.

610F Unrecognized or ambiguous switch name.

Action

Contact the service representative.

6111 Specify the required number of parameters.

Action

Contact the service representative.

6112 Specify a valid argument value.

Action

Contact the service representative.

6121 **Aggregate is being detached.**

Action

Contact the service representative.

6125 **Fsync attempted on non-regular file.**

Action

Ensure that the fsync operation is issued against a regular file.

6126 **Buffer size is 0 on a readdir attempt.**

Action

Ensure that the readdir buffer size is larger than 0.

6128 **The AGGR_FORMAT structure has invalid values.**

Action

Correct the values and issue the request again.

6130 **First usable block past super block.**

Action

Contact your service representative.

6132 **Initialempty value too big.**

Action

Initialempty value should be ignored. Contact your service representative.

6133 **Specified logsize too many blocks for aggregate size.**

Action

Do not specify a logsize greater than the size of the aggregate.

6136 **Error detaching the aggregate after the operation completed.**

Action

Contact the service representative.

6137 **Cannot open VSAM Linear Data Set for format.**

Action

Ensure the VSAM Linear Data Set exists and is accessible before retrying the operation.

6138 **Aggregate is already formatted.**

Action

The aggregate specified cannot be formatted because it already contains a ZFS file system. Either specify overwrite (using caution) or if the incorrect aggregate was specified, correct the aggregate name.

6139 **File system partition too small.****Action**

Contact the service representative.

613A **Too few disk blocks for file system.****Action**

Try decreasing the logsize value or allocating a larger VSAM Linear Data Set. If the problem persists, contact the service representative.

613B **Disk sizes too small.****Action**

Contact the service representative.

613C **Failed to initialize the device.****Action**

Contact the service representative.

613D **Error initializing the device.****Action**

Contact the service representative.

613E **Aggregate attach failed.****Action**

Contact the service representative.

613F **Internal error creating the file system.****Action**

Contact the service representative.

6140 **Failed to obtain storage while formatting.****Action**

Contact the service representative.

6141 **Internal error locating super block.****Action**

Contact the service representative.

6142 **Error reading super block.**

Action

If you specified an invalid ACL type, correct it. Otherwise, contact the service representative.

614E **Internal error writing ACL to disk.**

Action

Retry the operation and if it continues to fail, contact the service representative.

614F **An invalid command code was requested.**

Action

Correct the invalid command code and retry.

6150 **Lookup failure for volser for aggregate attach.**

Action

Contact the service representative.

6151 **Write past largest supported zFS file size or past the file allocation limit, which includes space for file location maps.**

Action

Remove data from the file to make room for the new data, or write the new data to another file.

6161 **Admin thread abended.**

Action

An application has issued a pfsctl call (or a user has issued a zfsadm command that resulted in a pfsctl call) and the thread running the request in zFS has abended. Contact the service representative.

6162 **Recovery routine given control.**

Action

The user has been cancelled or has issued CTRL-escape. The operation has completed. No action is required.

6163 **An error occurred in the recovery routine.**

Action

Contact the service representative.

6164 **An error occurred in the `efs_getvntok` call.**

Action

Contact the service representative.

6165 **An attempt to format an aggregate with a log size greater than 128M (16384 8K blocks).**

Action

Specify a logsize of less than or equal to 16384 blocks or do not specify a logsize.

6166 **The `vnode_cache_limit` is not between `vnode_cache_size` and 7340032.**

Action

Specify a `vnode_cache_limit` between the current `vnode_cache_size` and 7340032.

6167 **Could not obtain a vnode due to vnode_cache_limit being reached.**

Action

Increase the `vnode_cache_limit`.

6168 **The vnode cache size is not between 32 and the vnode cache limit.**

Action

Specify a `vnode_cache_size` between 32 and the `vnode_cache_limit`.

6200 **Filesys delete pfsctl did not find file system.**

Action

File system was not found. Correct the file system name and try again.

6201 **Unexpected file system open failure.**

Action

Contact the service representative.

6202 **File system is mounted.**

Action

Unmount the file system before deleting the file system.

6203 **File system getstatus call failed.**

Action

Contact the service representative.

6204 **File system setstatus call failed.**

Action

Contact the service representative.

6205 **File system sync status call failed.**

Action

Contact the service representative.

6206 **File system unclone of forward file system failed.**

Action

Contact the service representative.

6207 **File system sync failed.**

Action

Contact the service representative.

6208 File system setstatus on 2 file systems failed.

Action

Contact the service representative.

6209 File system destroy of file systems failed.

Action

Contact the service representative.

620A File system sync of aggregate failed.

Action

Contact the service representative.

620B File system close failed.

Action

Contact the service representative.

620C File system was found busy with another operation.

Action

Another file system operation is in progress. Reissue this operation when the other file system operation has completed.

620D Aggregate is attached R/O.

Action

The file system cannot be deleted because the aggregate is attached read-only.

620E Aggregate specified does not match aggregate found.

Action

The aggregate specified for the file system to be deleted is incorrect.

6223 Could not open file system.

Action

Contact the service representative.

6224 File system busy with other operation.

Action

Contact your service representative.

6225 R/W or backup file system is mounted.

Action

Contact your service representative.

6239 **Aggregate not found.**

Action

The aggregate specified cannot be found. Correct the aggregate name and try again.

623A **Bad unquiesce handle passed in.**

Action

The handle passed to unquiesce is incorrect. Use the quiesce handle received from the quiesce. This may also mean that the aggregate was not in a quiesced state.

623B **Error closing file system.**

Action

Contact the service representative.

623E **Aggregate not found.**

Action

The aggregate specified cannot be found. Correct the aggregate name and try again.

623F **Aggregate already quiesced or quiescing, or unquiescing.**

Action

The aggregate is already quiesced or a quiesce or unquiesce operation is already in progress for this aggregate. If you are doing a grow operation or a backup operation, the aggregate should not be already quiesced.

6238 **Cannot forward this PFCTL to a downlevel system.**

Action

The zFS owner of the aggregate is downlevel and cannot process this pfctl.

6240 **Aggregate sync operation failed.**

Action

Contact the service representative.

6241 **One or more file systems busy with other operations.**

Action

Use the error code to determine why the file system could not be quiesced during the aggregate quiesce.

6246 **File system is busy.**

Action

The file system is busy with another file system operation. Try again later.

6248 **Failure retrieving status from opened file system.**

Action

Contact the service representative.

624D Invalid parms in request.

Action

An invalid parameter was passed. Correct the parameter and try again.

624E Aggregate not found.

Action

The aggregate specified cannot be found. Correct the aggregate name and try again.

624F Failure retrieving status from aggregate.

Action

Contact the service representative.

6252 Aggregate not found.

Action

The aggregate specified cannot be found. Correct the aggregate name and try again.

6253 Detach cannot proceed because aggregate is quiesced.

Action

Unquiesce the aggregate before detaching it.

6254 Detach cannot proceed because file systems are mounted.

Action

Unmount the file systems before detaching the aggregate.

6255 Detach failed because some file systems could not be closed.

Action

Contact the service representative.

6258 Aggregate not found.

Action

The aggregate specified cannot be found. Correct the aggregate name and try again.

6259 Aggregate could not be grown. It is attached in R/O mode.

Action

The aggregate must be attached read-write to do a grow.

625C Could not grow quota in compat aggregate R/W file system.

Action

Contact the service representative.

625D **Unexpected error growing aggregate.**

Action

If the error code is 8, you may have specified a new size smaller than the current size, a new size of zero with a zero secondary allocation on the data set, or there may not be sufficient space on the volume. Otherwise, contact the service representative.

6260 **Aggregate not attached.**

Action

The aggregate must be attached before a file system can be created in it.

6261 **Aggregate is quiesced.**

Action

Unquiesce the aggregate before attempting to create a file system in it.

6262 **File system name to be created ends in .bak.**

Action

Do not use a file system name that ends in .bak. This is reserved for backup file systems created via clone. Use a file system name that does not end in .bak.

6263 **File system with name already exists.**

Action

Use a file system name that does not already exist.

6264 **Unexpected error attaching newly created file system.**

Action

Contact the service representative.

6265 **Error adding file system to aggregate file system table on disk.**

Action

Contact the service representative.

6266 **Error creating root directory in new file system.**

Action

Contact the service representative.

6267 **Error opening root directory vnode in new file system.**

Action

Contact the service representative.

6268 **Error adding . and .. to root directory.**

Action

Contact the service representative.

6269 **Aggregate attached R/O, cannot create file systems.**

Action

The aggregate must be attached read-write to create a file system in it.

626A **Aggregate is COMPAT aggregate, cannot create new file systems on it.**

Action

You cannot create another read-write file system in a compatibility mode aggregate.

626B **Quota smaller than minimum allowed.**

Action

Specify a quota of at least 128 when creating a file system. (128 means 128K).

626D **AGGR_ATTACH passed in is invalid.**

Action

Ensure that you did not specify both AGGR_NBS and AGGR_NONBS and try again.

626E **Aggregate already attached.**

Action

None.

626F **Aggregate attach failed.**

Action

Ensure that the aggregate has been formatted. Otherwise, ensure that you are not mounting or attaching an aggregate read-write when it is already mounted or attached read-write on another (non-sysplex coordinated) system. Otherwise, contact the service representative.

6270 **Some file systems on aggregate could not be opened.**

Action

If the return code is 121 (EINVAL), ensure that you are not attempting to attach a multi-file system aggregate in a shared file system environment. Otherwise, contact the service representative.

6271 **Cannot run required recovery since aggregate is being attached read-only.**

Action

Attach the aggregate as read-write so that recovery can be run. The aggregate can then be detached and then attached as read-only. To avoid this problem in the future, you can specify the **romount_recovery=on** configuration option to allow zFS to temporarily attach the aggregate read-write in this case in order to allow log recovery to run and then detach and attach the aggregate read-only.

6273 **Buffer or bufsize is zero, but not both.**

Action

Either buffer offset or buffer size is zero but the other is not. You must have either a buffer offset and a buffer size or you must set them both to zero.

6274 **Buffer passed is too small.**

Action

The buffer passed is too small to hold the array of AGGR_IDs. The size needed is returned in the size parameter.

6277 **Buffer or bufsize is zero, but not both.**

Action

Either buffer offset or buffer size is zero but the other is not. You must have either a buffer offset and a buffer size or you must set them both to zero.

6278 **Buffer passed is too small.**

Action

The buffer passed is too small to hold the array of FS_IDs. The size needed is returned in the size parameter.

6279 **Aggregate not found.**

Action

The aggregate specified in the LISTFSNAMES paramter cannot be found. You may need to attach the aggregate. Correct the problem and try again.

627A **Aggregate deleted.**

Action

The aggregate specified is being detached. To list the file systems in the aggregate, it must be attached.

629E **AGGR_FORMAT eyecatcher invalid.**

Action

The eyecatcher in the AGGR_FORMAT structure is incorrect. It must be AGFM.

629F **AGGR_FORMAT length invalid.**

Action

The length of the AGGR_FORMAT structure is incorrect. It must be 116 bytes.

62A0 **AGGR_FORMAT version invalid.**

Action

The version of the AGGR_FORMAT structure is incorrect. It must be the value 1.

62A1 **AGGR_FORMAT reserved field invalid.**

Action

The reserved field of the AGGR_FORMAT structure must contain zeros.

62A2 **AGGR_ID eyecatcher invalid.**

Action

The eyecatcher in the AGGR_ID structure is incorrect. It must be AGID.

62A3 **AGGR_ID length invalid.**

Action

The length of the AGGR_ID structure is incorrect. It must be 84 bytes.

62A4 **AGGR_ID version invalid.**

Action

See [*z/OS File System Administration*](#) for the versions of AGGR_ID that are supported.

62A5 **AGGR_ID reserved invalid.**

Action

AGGR_ID reserved fields must be set to binary zeros.

62A6 **AGGR_ID name too long.**

Action

The aggregate name in the AGGR_ID must be no longer than 44 characters.

62A7 **AGGR_ID name not specified.**

Action

The aggregate name in the AGGR_ID must be specified.

62AA **AGGR_ATTACH eyecatcher invalid.**

Action

The eyecatcher in the AGGR_ATTACH structure is incorrect. It must be AGAT.

62AB **AGGR_ATTACH length invalid.**

Action

The length of the AGGR_ATTACH structure is incorrect. It must be 268 bytes.

62AC **AGGR_ATTACH version invalid.**

Action

The version of the AGGR_ATTACH must be 1.

62AD **AGGR_ATTACH reserved invalid.**

Action

AGGR_ATTACH reserved fields must be set to binary zeros.

62AE **AGGR_ATTACH both NBS and NONBS specified.**

Action

You can specify NBS or NONBS or neither in the AGGR_ATTACH. You cannot specify both.

62AF **AGGR_ATTACH increment invalid.**

Action

The increment percent must be greater than or equal to 1 and less than or equal to 99.

62B0 **AGGR_ATTACH threshold invalid.**

Action

The threshold percent must be greater than or equal to 1 and less than or equal to 99.

62B3 **AGGR_STATUS eyecatcher invalid.**

Action

The AGGR_STATUS eyecatcher must be AGST.

62B4 **AGGR_STATUS length invalid.**

Action

The AGGR_STATUS length must be 172, 172 or 260 bytes for AGGR_STATUS, AGGR_STATUS2 or AGGR_STATUS3 respectively.

62B5 **AGGR_STATUS version invalid.**

Action

The AGGR_STATUS version must be 1.

62B8 **FS_ID eyecatcher invalid.**

Action

The FS_ID eyecatcher must be FSID.

62B9 **FS_ID length invalid.**

Action

The FS_ID length must be 140 bytes for an FS_ID or 200 bytes for an FS_ID2.

62BA **FS_ID version invalid.**

Action

The FS_ID version must be 1 or 2.

62BB **FS_ID reserved invalid.**

Action

FS_ID reserved fields must be binary zeros.

62BC **FS_ID aggregate name too long.**

Action

The FS_ID aggregate name must be less than or equal to 44 characters.

62BD **FS_ID aggregate name not specified.**

Action

The FS_ID aggregate name must be specified.

62BE **FS_ID fs name not specified.**

Action

The FS_ID file system name must be specified.

62BF **FS_ID fs name too long.**

Action

The FS_ID file system name must be less than or equal to 44 characters.

62C0 **FS_ID fs name contains invalid characters.**

Action

The FS_ID file system name can only contain a valid zFS file system name. See [*z/OS File System Administration*](#) for information on valid zFS file system names.

62C3 **FS_STATUS eyecatcher invalid.**

Action

The FS_STATUS eyecatcher must be FSST.

62C4 **FS_STATUS length invalid.**

Action

The FS_STATUS length must be 396 bytes.

62C5 **FS_STATUS version invalid.**

Action

The FS_STATUS version must be 1.

62C8 **FILESYS_DATA eyecatcher invalid.**

Action

The FILESYS_DATA eyecatcher must be FSST.

62C9 **FILESYS_DATA length invalid.**

Action

The length of the FILESYS_DATA must be 92 bytes.

62CA **FILESYS_DATA version invalid.**

Action

The FILESYS_DATA version must be 1.

62CB FILESET_DATA reserved invalid.

Action

FILESYS_DATA reserved fields must be binary zeros.

62CC FILESYS_DATA quota invalid.

Action

The quota must be less than or equal to 4294967295. This is 1 K blocks.

62CF Syscall_parmlist bad offset at parm0.

Action

The offset at parms0 must be 32.

62D0 Syscall_parmlist parms0 truncated.

Action

The pfsctl argument must be increased to contain the entire required argument.

62D1 Syscall_parmlist parms0 missing.

Action

A non-zero parms0 must be specified.

62D2 Syscall_parmlist bad offset at parms1.

Action

The offset at parms1 must contain the correct offset for the required parameters.

62D3 Syscall_parmlist parms1 truncated.

Action

The pfsctl argument must be increased to contain the entire required argument.

62D4 Syscall_parmlist parms1 missing.

Action

A non-zero parms1 must be specified.

62D5 Syscall_parmlist bad offset at parms2.

Action

The offset at parms2 must contain the correct offset for the required parameters.

62D6 Syscall_parmlist parms2 truncated.

Action

The pfsctl argument must be increased to contain the entire required argument.

62D7 **Syscall_parmlist parms2 missing.**

Action

A non-zero parms2 must be specified.

62D8 **Syscall_parmlist bad offset at parms3.**

Action

The offset at parms3 must contain the correct offset for the required parameters.

62D9 **Syscall_parmlist parms3 truncated.**

Action

The pfsctl argument must be increased to contain the entire required argument.

62DA **Syscall_parmlist parms3 missing.**

Action

A non-zero parms3 must be specified.

62DB **Syscall_parmlist unexpected opcode.**

Action

Provide a valid subcommand opcode.

62DC **Syscall_parmlist unexpected command.**

Action

Provide a valid zFS pfsctl command.

62E1 **Anode open failed.**

Action

Contact the service representative.

62E2 **Object at index is not volume.**

Action

Contact the service representative.

62E3 **Volume open failed.**

Action

Contact the service representative.

62E4 **Cannot get enough memory for aggregate list.**

Action

Contact the service representative.

62E5 **Cannot get non-growing aggregate list. Try later.**

Action

The number of attached aggregates grew several times during a request to list attached aggregate names. Try again later.

62E6 **A Syscall parmlist is invalid.**

Action

Provide a valid subcommand opcode or ensure the argument is large enough to hold the syscall parmlist.

6300 **Getacl request for default object acls, but not on a directory.**

Action

Issue the request against a directory.

6301 **zfsadm format error when -size > default size and grow error.**

Action

Ensure that space is available on the volume(s). If space is available and it still fails, contact the service representative.

6310 **no storage for idcams parms.**

Action

If storage is not available, run IDCAMS as a batch job.

6311 **idcams failed.**

Action

Examine the messages in the message buffer for the reason for the failure.

If your application does not display the message buffer (that contains messages from the IDCAMS program), try running the zfsadm define command since it does display the message buffer. (The error may depend on the userid running the application/command or other conditions (for example, space on the volume) may change.)

6312 **no aggregate in AGGR_DEFINE.**

Action

Specify the aggregate name in the AGGR_DEFINE.

6313 **aggregate too long.**

Action

Specify an aggregate name of 44 characters or less.

6314 **catalog too long.**

Action

Specify a catalog name of 44 characters or less.

6315 **data class too long.**

Action

Specify a data class name of 8 characters or less.

6316 **management class too long.**

Action

Specify a management class name of 8 characters or less.

6317 **model too long.**

Action

Specify a model name of 44 characters or less.

6318 **model catalog too long.**

Action

Specify a model catalog name of 44 characters or less.

6319 **storage class too long.**

Action

Specify a storage class name of 8 characters or less.

631A **invalid number of volumes.**

Action

Specify a number of volumes as a number between (and including) 0 to 59.

631B **volume too long.**

Action

Specify volume names of 6 characters or less.

631C **invalid primary.**

Action

Specify a primary allocation size of greater than 0.

631D **invalid secondary.**

Action

Specify a non-negative secondary allocation size (0 is allowed).

631E **invalid space unit.**

Action

If a space unit is specified, it must be cylinders (1), Kilobytes (2), Megabytes (3), Records (4), or Tracks (5).

631F **name is blank.**

Action

Specify a non-blank volume for each of the count of volumes specified in the numVolumes field in AGGR_DEFINE.

6320 **AGGR_DEFINE eyecatcher invalid.**

Action

The eyecatcher for the AGGR_DEFINE must be AGDF.

6321 **AGGR_DEFINE length invalid.**

Action

The AGGR_DEFINE length must be 772.

6322 **AGGR_DEFINE version invalid.**

Action

The AGGR_DEFINE version must be 1.

6323 **AGGR_DEFINE reserved invalid.**

Action

AGGR_DEFINE reserved fields must be binary zeros.

6324 **z/OS UNIX FILESYSTEM name invalid.**

Action

Specify allowable zFS file system name characters. These are documented in [z/OS File System Administration](#) under ioegfmt.

6325 **Aggregate name invalid.**

Action

Specify allowable zFS aggregate name characters. These are documented in [z/OS File System Administration](#) under ioegfmt.

6400 **USER cache size too big.**

Action

Ensure that the -user_cache_size value specified is less than 65536M.

6401 **Could not create a data space.**

Action

Contact the service representative.

6402 **Could not extend a data space.**

Action

Contact the service representative.

6403 **Could not create a new admin thread.**

Action

Specify a configuration option value of 1 or greater.

6418 **Too many threads attempted.**

Action

Specify a configuration option value of 256 or less.

6419 **Both file system and mount specified.**

Action

Specify either z/OS UNIX FILE SYSTEM_NAME or zFS file system name, but not both.

641A **The value specified for the -long_cmd_threads option is invalid. The value must be two numbers that are separated by a comma. The first number must be in the range 1-3. The second number must be in the range 1-64. Refer to the description of the IOEFSPRM long_cmd_threads option in z/OS Distributed File Service zFS Administration for more information about what the two numbers represent.**

Action

Correct the value for the -long_cmd_threads option and try the command again.

6420 **Both aggregate and mount specified.**

Action

Specify either z/OS UNIX FILE SYSTEM_NAME or zFS aggregate name, but not both.

6421 **mount name not found.**

Action

Specify the correct z/OS UNIX file system (mounted) name.

6422 **filesystem not found.**

Action

Specify the correct zFS file system name or the correct aggregate that contains the zFS file system.

6423 **The specified aggregate could not be found.**

Action

Specify the correct aggregate name, ensure it is mounted and try the operation again.

6424 **File system name not unique.**

Action

The zFS file system name is not unique. Specify the aggregate that the file system resides in.

6425 **File system name not found.**

Action

The file system is not mounted or attached. Ensure that the file system name is correct. Then mount or attach the file system in accordance with the requirements of the command in use.

6426 **syscall_parmlist bad offset at parm4.**

Action

Specify the correct offset in parm4.

6427 **syscall_parmlist parm4 truncated.**

Action

Specify a size to include all the parms.

6428 **syscall_parmlist parm4 missing.**

Action

Specify parm4.

6429 **Cannot honor request to enforce unique filesystem because there are already non-unique file systems.**

Action

Either do not attempt to disallow duplicate file systems or ensure that file system names are unique.

642A **Cannot specify aggrgrow and noaggrgrow on the zfsadm attach command.**

Action

You can specify AGGRGROW or NOAGGRGROW or neither in the AGGR_ATTACH. You cannot specify both.

642B **Mount name cannot be used.**

Action

The fsid_mntname field was used in the FS_ID2 for Delete File System. This is not allowed. Use fsid_name. (The file system cannot be mounted.)

6440 **Internal failure.**

Action

An internal failure occurred. Contact the service representative.

6441 **Internal failure.**

Action

An internal failure occurred. Contact the service representative.

6443 **Internal failure.**

Action

An internal failure occurred. Contact the service representative.

6444 **CLIENT cache size too big.**

Action

Ensure that the -client_cache_size value specified is not greater than 65536M.

6445 **CLIENT cache size too small.**

Action

Ensure that the -client_cache_size value specified is 10M or greater.

6446 **The threshold,increment pair is invalid. Each value in the pair must be in the range 1 to 99.**

Action

Correct the value and try the operation again.

6500 **Received XCF request from system we do not know about.**

Action

Wait a few minutes to see if the situation corrects itself. If the problem persists, contact the service representative.

6501 **Received XCF request about aggregate we do not know about.**

Action

Wait a few minutes to see if the situation corrects itself. If the problem persists, contact the service representative.

6503 **Received a bad AGNOTIFY packet from another system.**

Action

Retry the operation. If the problem persists, contact the service representative.

6504 **Could not make an AGNOTIFY communication to another system.**

Action

Retry the operation. If the problem persists, contact the service representative. Look in the system log for messages indicating XCF communications problems.

6505 **Received a bad FSNOTIFY packet from another system.**

Action

Retry the operation. If the problem persists, contact the service representative.

6506 **Received XCF request about file system we do not know about.**

Action

Wait a few minutes to see if the situation corrects itself. If the problem persists, contact the service representative.

6508 **Received an FSNOTIFY_REGISTER request for a file system that this system already knows about.**

6514 **List Systems has no system names to return.**

Action

There are no system names to be returned. Zero is returned in the size field (offset to size is in parms2).

6515 **List Systems cannot get memory to hold list of systems.**

Action

zFS could not get the storage to hold the list of systems. The zFS address space is most likely out of storage. Try to decrease storage usage by decreasing cache sizes.

6516 **XCF communication to another system failed.**

Action

Retry the operation. Look in the system log for messages indicating XCF communications problems. If the problem persists, contact the service representative.

6517 **Received a bad pfscctl packet from another system.**

Action

An invalid command or subcommand was issued to a remote system. Retry the operation. If the return code is 157 (EMVSERR), contact the service representative.

6518 **System name too long.**

Action

Specify a system name that is eight characters or less.

6519 **Unknown system name.**

Action

Specify a valid system name.

651A **Buffer is too small for result.**

Action

Retry the operation. If the problem persists, contact the service representative.

651B **Buffer and buffer length must both be zero or both non-zero.**

Action

Retry the operation. If the problem persists, contact the service representative.

651C **Parms0 is not zero.**

Action

The offset at parms0 must be set to zero.

651D **Parms1 is not set to zero.**

Action

The offset at parms1 must be set to zero.

651E **Parms2 is not set to zero.**

Action

The offset at parms2 must be set to zero.

651F **Parms3 is not set to zero.**

Action

The offset at parms3 must be set to zero.

6520 **Parms4 is not set to zero.**

Action

The offset at parms4 must be set to zero.

6521 **Parms5 is not set to zero.**

Action

The offset at parms5 must be set to zero.

6522 **Parms6 is not set to zero.**

Action

The offset at parms6 must be set to zero.

652B **Could not load IRRSSB00.**

Action

The load module IRRSSB00 (normally located in SYS1.CSSLIB in z/OS 1.5 or later) cannot be loaded. Ensure that this load module exists.

652C **Unsupported function (change seclabel).**

Action

The change seclabel function is not supported prior to z/OS 1.5.

652D **XCF communications failure forwarding the command to the zFS owning system.**

Action

The current owning system has likely gone down while processing the command. Try the command again after ownership of the file system is moved. If the problem persists, contact the service representative.

6609 **An attempt was made to set the token cache size smaller than the number of allocated tokens.**

Action

Determine the current number of allocated tokens by issuing modify zfs,query,stk. Reissue the command specifying a token_cache_size larger than the current number of allocated tokens and less than the maximum of 2621440.

660A **An attempt to set the token cache size larger than the currently supported maximum size was attempted.**

Action

Retry the operation with a value in the range 20480 to 20000000.

6611 **A conflicting administration command is already running.**

Action

You are attempting to run a zFS cache resize command and another operation is already running that interferes with it such as another resize or a zFS shutdown. Retry the resize command. If the problem persists, contact the service representative.

6617 **Sysplex communication error, XCF send failed.**

Action

Determine the source of the error such as system down, or system hang. If error cannot be determined, contact the service representative.

6638 **Aggregate is no longer owned by system.**

Action

The request was sent to the zFS owning system but when the request arrived at that system, the aggregate was no longer owned by that system. Reissue the request again.

6639 **Aggregate is busy with another administration operation.**

Action

Wait until the aggregate operation is complete and the aggregate is unquiesced.

663B **Could not sync aggregate at original owner system.**

Action

Contact the service representative.

663D **An unmount is pending.**

Action

Wait for unmount to complete before issuing request.

663E **Aggregate is damaged.**

Action

Detach the aggregate and attempt to attach it again.

663F **Vnode is unusable, possibly due to an outage/restart of zFS on a system.**

Action

Try restarting the application, if that fails to correct the problem then try re-mounting the file system.

6640 **Could not attach aggregate at the new owner and original owner failed.**

Action

Detach the aggregate and attempt to attach it again.

6641 **New owner not ready for takeover.**

Action

Wait until the new owner is ready or try another owner.

6649 **An open file lost some updates due to a server crash.**

Action

Contact the service representative.

664A **An aggregate/file system administration function failed because a system went down.**

Action

Try the command again after the system completes termination or completes its restart.

664B **A sysplex config command was issued but this is not a sysplex environment.**

Action

Do not issue a sysplex config command when you are not in a sysplex environment.

664C **STAT_API eye catcher is wrong.**

Action

The eyecatcher for the STAT_API structure must be STAP.

664D **STAT_API version number is wrong.**

Action

The version number for the STAT_API structure must be 1 or 2.

664E **STAT_API size is wrong.**

Action

The size of the STAT_API structure must be at least 48 bytes.

664F **Buffer size is too small.**

Action

The size of the buffers for a statistics query were not large enough.

6650 **Report type is wrong.**

Action

The statistics subcommand is invalid.

6651 **Flag value invalid.**

Action

The STAT_API flags value is invalid. It must be either 0x80 (for reset) or 0x00 (for no reset).

665C **Statistics Iobydasd Query Parm1 value is invalid.**

Action

The Parm1 value for the Statistics Iobydasd Query subcommand must be 80.

665D **Detach of an unowned aggregate failed.**

Action

Contact the service representative.

665E **Remount requested but aggregate is busy with another operation.**

Action

Wait for the aggregate operation to complete before issuing remount.

665F **client_reply_storage specified is too small.**

Action

client_reply_storage must be at least 2M.

6660 **client_reply_storage specified is too big.**

Action

client_reply_storage must not exceed 128M.

6661 **Client reply pool not changed since this is not a sysplex aware environment.**

Action

Only issue this command in a sysplex aware environment. If this is a sysplex aware environment, then contact your service representative.

6662 **Insufficient storage available to resize the client reply storage pools.**

Action

Use the zfsadm config command to decrease the size of other caches or retry the command specifying a smaller client reply storage size.

6663 **Insufficient storage for the XCF storage pool.**

Action

The zFS address space is most likely out of storage. Try to decrease storage usage by decreasing cache sizes.

666B **AGGR_STATUS reserved field not zero.**

Action

The reserved fields in AGGR_STATUS must be 0.

666C **Internal failure during MOUNT.**

Action

Contact the service representative.

Action

A failure occurred while trying to get storage to add items to the buffer cache. The zFS address space is most likely out of storage. Try to decrease storage usage by decreasing cache sizes.

6681 **Failure during attempt to add items back into the buffer cache.**

Action

A failure occurred while trying to get storage to add items back into the buffer cache. The zFS address space is most likely out of storage. Try to decrease storage usage by decreasing cache sizes.

6682 **Failure during attempt to add items to the metaback buffer cache.**

Action

A failure occurred while trying to get storage to add items to the metaback buffer cache. The zFS address space is most likely out of storage. Try to decrease storage usage by decreasing cache sizes.

6683 **Failure during attempt to add items to the log buffer cache.**

Action

A failure occurred while trying to get storage to add items to the log buffer cache. The zFS address space is most likely out of storage. Try to decrease storage usage by decreasing cache sizes.

6684 **Failure during attempt to add items to the transaction cache.**

Action

A failure occurred while trying to get storage to add items to the transaction cache. The zFS address space is most likely out of storage. Try to decrease storage usage by decreasing cache sizes.

6685 **Failure during attempt to add items back into the transaction cache.**

Action

A failure occurred while trying to get storage to add items back into the transaction cache. The zFS address space is most likely out of storage. Try to decrease storage usage by decreasing cache sizes.

6686 **Failure during attempt to add items to the vnode cache.**

Action

A failure occurred while trying to get storage to add items to the vnode cache. The zFS address space is most likely out of storage. Try to decrease storage usage by decreasing cache sizes.

6689 **Failure to obtain write lock.**

Action

A failure occurred during an attempt to obtain a write lock during a mount, unmount or file operation. Contact the service representative.

668A **Failure to obtain write lock.**

Action

A failure occurred during an attempt to obtain a write lock during a mount operation. Contact the service representative.

6690 **Out of storage during a mount operation.**

Action

A failure to obtain storage occurred during a mount operation. Try to take actions to release storage and retry the mount.

6696 **Internal failure during mount operation.**

Action

An internal failure occurred during a mount operation. Contact the service representative.

6697 **Internal failure during mount operation.**

Action

An internal failure occurred during a mount operation. Contact the service representative.

6698 **Administration operation failed because zFS is shutting down.**

Action

An administration operation failed because zFS is shutting down. Retry the operation when zFS is restarted.

6699 **Internal failure.**

Action

An internal failure occurred. Contact the service representative.

66A0 **Failure to obtain lock.**

Action

An internal failure occurred. Contact the service representative.

66A1 **Failure to obtain lock.**

Action

An internal failure occurred. Contact the service representative.

66A4 **Failure to obtain lock.**

Action

An internal failure occurred. Contact the service representative.

66A6 **Internal failure during list aggregates operation.**

Action

An internal failure occurred during a file system delete operation. Contact the service representative.

66A7 **Internal failure during list file systems operation.**

Action

An internal error occurred during a list file system operation. Contact the service representative.

66A8 **Internal failure during quiesce operation.**

Action

An internal failure occurred during an aggregate quiesce operation. Contact the service representative.

66AA **Internal failure during aggregate operation.**

Action

An internal failure occurred during an aggregate operation. Contact the service representative.

66AC **Internal failure during attach operation.**

Action

An internal failure occurred during an attach operation. Contact the service representative.

66AD **Internal failure during file system administration operation.**

Action

An internal failure occurred during a file system administration operation. Contact the service representative.

66B1 **Internal failure during mount operation.**

Action

An internal failure occurred during a mount operation. Contact the service representative.

66B2 **Internal error trying to place a hold on a vnode.**

Action

Contact the service representative.

66B3 **Internal error locking a vnode.**

Action

Contact the service representative.

66B4 **Could not initialize a vnode.**

Action

If the aggregate is disabled, unmount and remount the file system. Retry the operation. If the problem persists, contact the service representative.

66B5 **Could not clear isuid or isgid bits.**

Action

If the aggregate is disabled, unmount and remount the file system. Retry the operation. If the problem persists, contact the service representative.

66B8 **Could not change the size of the vnode cache.**

Action

If there is not enough storage available for the new vnode cache size, then try decreasing the size of other caches. Otherwise, contact the service representative.

66B9 **Internal error. Could not set link count of root directory.**

Action

Contact the service representative.

66BA Internal error setting vnode key.

Action

Contact the service representative.

66BB Internal error creating the file system.

Action

Contact the service representative.

66BC Internal error getting the status for a vnode.

Action

Contact the service representative.

66BD Internal error updating directory link count.

Action

If the aggregate is disabled, unmount and remount the file system. Retry the operation. If the problem persists, contact the service representative.

66BE Internal error updating mtime or ctime.

Action

If the aggregate is disabled, unmount and remount the file system. Retry the operation. If the problem persists, contact the service representative.

66C0 Internal error, user file cache, bad page pointers.

Action

Contact the service representative.

66C1 Internal error, user file cache, bad page counts.

Action

Contact the service representative.

66C2 Internal error, user file cache, schedule dirty data failed.

Action

Contact the service representative.

66C3 Internal error, user file cache, sync of pending IO failed.

Action

Contact the service representative.

66C4 Internal error, user file cache, could not truncate file.

Action

Contact the service representative.

66C5 Internal error, user file cache, could not resize cache.

Action

Contact the service representative.

66C6 Internal error, user file cache, could not read a file.

Action

Contact the service representative.

66C7 Internal error, user file cache, could not write a file.

Action

Contact the service representative.

66C8 Internal error, user file cache, could not get file attributes.

Action

Contact the service representative.

66C9 Internal error, user file cache, could not schedule file data at close.

Action

Contact the service representative.

66CA Internal error, user file cache, could not fsync file data.

Action

Contact the service representative.

66CB Internal error, user file cache, could not set file attributes.

Action

Contact the service representative.

66CC Internal error, user file cache, error handling page fault.

Action

Contact the service representative.

66CD Internal error, user file cache, could not obtain resize lock.

Action

Contact the service representative.

66CE Internal error, user file cache, could not free cache data for file.

Action

Contact the service representative.

66CF **Internal error, user file cache, could not obtain file block information.****Action**

Contact the service representative.

66D0 **Internal error, aggregate component, could not detach aggregate.****Action**

Contact the service representative.

66D1 **Aggregate name longer than 44 characters.****Action**

An aggregate name is longer than 44 characters. Change the aggregate name to be 44 characters or less.

66D2 **Aggregate name contains invalid characters.****Action**

An aggregate name contains invalid characters. Ensure that the aggregate name consists only of valid characters. See [z/OS File System Administration](#) for information on valid characters in an aggregate name.

66D3 **zFS File System name longer than 44 characters.****Action**

A zFS file system name is longer than 44 characters. Change the zFS file system name to be 44 characters or less.

66D4 **zFS File System name contains invalid characters.****Action**

A zFS file system name contains invalid characters. Ensure that the zFS file system name consists only of valid characters. See [z/OS File System Administration](#) for information on valid characters in a zFS file system name.

66D5 **z/OS UNIX file system name longer than 44 characters.****Action**

A z/OS UNIX file system name is longer than 44 characters. Change the z/OS UNIX file system name to be 44 characters or less.

66D6 **z/OS Unix File System name contains invalid characters.****Action**

A z/OS UNIX file system name contains invalid characters. Ensure that the z/OS UNIX file system name consists only of valid characters. See [z/OS File System Administration](#) for information on valid characters in a z/OS UNIX file system name.

66D7 **System name too long.**

Action

Specify a system name that is 8 characters or less.

66DF **Syscall_parmlist bad offset at parms1.**

Action

The STAT_API structure must be 48 bytes. The offset at parms1 must be 80 (32+48).

66E0 **Timestamp too large for 5 bytes.**

Action

Cannot store a timestamp that is larger than 5 bytes.

66E1 **Aggregate could not be opened on this system.**

Action

This can mean that you attempted to move ownership of a zFS sysplex-aware read-write file system to a system that does not support zFS sysplex-aware (that is, it is z/OS V1R12 but is running with zFS sysplex=off). This is not allowed.

66E4 **Aggregate possibly attached on another system.**

Action

Determine if the aggregate is mounted or attached on another system. If the problem persists contact your service representative.

66E5 **Internal error during ACL processing.**

Action

An internal failure occurred during ACL processing. Contact the service representative.

66E6 **Length for parm0 is bad.**

Action

Fix the length and retry.

66E7 **Length for parm1 is bad.**

Action

Fix the length and retry.

66E8 **Length for parm2 is bad.**

Action

Fix the length and retry.

66E9 **Length for parm3 is bad.**

Action

Fix the length and retry.

66EA **Length for parm4 is bad.**

Action

An internal failure occurred. Contact the service representative.

6703 **Could not obtain lock during vnode_cache_size processing.**

Action

An internal failure occurred. Contact the service representative.

6704 **Internal failure during user cache statistics processing.**

Action

An internal failure occurred. Contact the service representative.

6705 **Internal failure during aggregate format.**

Action

An internal failure occurred. Contact the service representative.

6706 **Internal failure during aggregate format.**

Action

An internal failure occurred. Contact the service representative.

6707 **Internal failure during transaction lock operation.**

Action

An internal failure occurred. Contact the service representative.

6708 **Internal failure during start transaction operation.**

Action

An internal failure occurred. Contact the service representative.

6709 **Internal failure during fsync operation.**

Action

An internal failure occurred. Contact the service representative.

670A **Internal failure obtaining memory for operation.**

Action

An internal failure occurred. Contact the service representative.

670B **Internal failure during cache lock operation.**

Action

An internal failure occurred. Contact the service representative.

670C **Internal failure during update link count operation.**

Action

An internal failure occurred. Contact the service representative.

671A **Failure to shrink size of transaction cache.**

Action

An internal failure occurred. Contact the service representative.

671B **Failure setting size of logfile cache.**

Action

An internal failure occurred. Contact the service representative.

671D **Internal failure during setup operation.**

Action

An internal failure occurred. Contact the service representative.

671E **Internal failure during ifs_close.**

Action

An internal failure occurred. Contact the service representative.

671F **Internal failure during thread pool configuration.**

Action

An internal failure occurred. Contact the service representative.

6720 **Internal failure during thread pool resize.**

Action

An internal failure occurred. Contact the service representative.

6721 **Internal failure in wait service.**

Action

An internal failure occurred. Contact the service representative.

6722 **Striped VSAM Linear Data Set not supported for zFS aggregate.**

Action

Striped VSAM Linear Data Sets are not supported. If you are formatting, define a VSAM LDS that is not striped and then format that VSAM LDS. If you are attaching (or mounting) a striped VSAM LDS that has been formatted as a zFS aggregate, you can only attach it (or mount it) in read-only mode. After it is attached (or mounted), copy the data into another zFS aggregate that is not a striped VSAM LDS. If you cannot attach (or mount) for read-only the zFS aggregate that is a striped VSAM LDS, call the service representative.

6723 **Internal failure while performing sysplex filesystem operation.**

Action

An internal failure occurred. Contact the service representative.

6724 Internal failure while performing sysplex mount/quiesce operations.

Action

An internal failure occurred. Contact the service representative.

6726 An attempt to change ownership of R/W aggregate is not allowed unless both the source and target system support sysplex file sharing.

Action

You cannot change the ownership of a R/W aggregate unless both the source and target system support sysplex file sharing.

6727 Internal failure while handling new owner request at target system.

Action

An internal failure occurred. Contact the service representative.

6728 Internal failure while attempting aggregate takeover.

Action

An internal failure occurred. Contact the service representative.

6729 An error occurred during extension of the zFS aggregate.

Action

DFSMS failed the extension attempt. The DFSMS return code is returned in the second byte of the return code. The DFSMS Problem Determination Function (PDF) code is returned in the third byte of the return code. The meaning of these codes can be determined by looking at message IEC161I.

672A Internal failure. Aggregate system lock lost during define processing, define ok.

Action

An internal failure occurred. Contact the service representative.

672B Internal failure. Aggregate system lock lost during define processing, define failed.

Action

An internal failure occurred. Contact the service representative.

6730 Internal failure during sysplex admin operation.

Action

An internal failure occurred. Contact the service representative.

6738 Internal failure. xcf_stgpool_setsize received a bad pool number.

Action

An internal failure occurred. Contact the service representative.

673D Internal failure. agsys_send_quiesce, format_send_vectors failed.

Action

Internal RACF error. Contact the service representative.

6771 **RACF not authorized.**

Action

RACF not authorized. Set up authorizations or contact the service representative.

6772 **RACF not installed.**

Action

RACF not installed. Install RACF or contact the service representative.

6775 **Aggregate not owned on local system.**

Action

Ensure that the aggregate exists and is owned on the system where the command is issued from. If the aggregate is owned on a different system, issue the Unquiesce from that system. Use the OMVS **zfsadm Isaggr** command to determine which system owns the aggregate.

6776 **Aggregate is not locally owned.**

Action

Since it is possible the aggregate moved from the previous owning system to another system in the sysplex while the command was being executed, reissue the command. If the problem persists, contact the service representative.

6800 **Mount for multi-file system aggregate is not allowed. This error could also result if a compatibility mode aggregate was not entered in uppercase or if there were system problems unmounting a file system.**

Action

Using a release of z/OS prior to z/OS V2R1, attach the aggregate, mount the file system and copy the file system data to a compatibility mode aggregate. If this is a compatibility mode aggregate, ensure the name is entered in uppercase.

6806 **File system not locally mounted on owning system.**

Action

Retry operation after file system is mounted.

6809 **Aggregate is not locally mounted on the remote system.**

Action

Take action only if the aggregate is supposed to be locally mounted on the remote system.

680A **The create of the dircache association failed.**

Action

Internal error. Contact the service representative.

680B **The security server could not return a UTOKEN for the user.**

Action

Internal error. Contact the service representative.

680C **A bad vnode/anode pointer state exists.**

Action

Internal error. Contact your service representative.

6900 **Internal failure during write operation.**

Action

Contact the service representative.

6901 **Internal failure during write operation.**

Action

Contact the service representative.

6903 **Internal failure during read operation.**

Action

Contact the service representative.

6904 **Internal failure during wait for I/O.**

Action

Contact the service representative.

6905 **Internal failure during a read.**

Action

Contact the service representative.

6906 **Internal failure during clear setid.**

Action

Contact the service representative.

6907 **Internal failure during write of dirty pages.**

Action

Contact the service representative.

6908 **Internal failure during write.**

Action

Contact the service representative.

6909 **Internal failure during write.**

Action

Contact the service representative.

690A Internal failure during readlink.

Action

Contact the service representative.

690B Internal failure during setacl.

Action

Contact the service representative.

690C Internal failure during read.

Action

Contact the service representative.

690D Internal failure during trunc.

Action

Contact the service representative.

690E Internal failure during trunc.

Action

Contact the service representative.

690F Internal failure during fsync.

Action

Contact the service representative.

6910 Internal failure during close.

Action

Contact the service representative.

6911 Internal failure during inactivate.

Action

Contact the service representative.

6912 Internal failure during setattr.

Action

Contact the service representative.

6913 Internal failure during getattr.

Action

Contact the service representative.

6914 Internal failure during access check.

Action

Contact the service representative.

6915 Internal failure during audit.

Action

Contact the service representative.

6916 Internal failure during getacl.

Action

Contact the service representative.

6917 Internal failure during XCF communication.

Action

Contact the service representative.

6918 Internal failure during lock for write.

Action

Contact the service representative.

6919 Internal failure during lock for read.

Action

Contact the service representative.

691A Internal failure during access check.

Action

Contact the service representative.

691B Internal failure during audit.

Action

Contact the service representative.

691C Internal failure during check two owners.

Action

Contact the service representative.

691D Internal failure during getsecinfo.

Action

Contact the service representative.

691E Internal failure during vget.

Action

Contact the service representative.

691F Internal failure during readdr.

Action

Contact the service representative.

6920 Internal failure during lookup.

Action

Contact the service representative.

6921 Internal failure during create.

Action

Contact the service representative.

6922 Internal failure during link.

Action

Contact the service representative.

6923 Internal failure during remove.

Action

Contact the service representative.

6924 Internal failure during rename.

Action

Contact the service representative.

6925 Internal failure during write lock.

Action

Contact the service representative.

6926 Internal failure during write lock.

Action

Contact the service representative.

6927 Internal failure during token get.

Action

Contact the service representative.

6928 Internal failure during write lock.

Action

Contact the service representative.

6929 Internal failure during remove token.

Action

Contact the service representative.

692A Internal failure during add token.

Action

Contact the service representative.

692B Internal failure during create host.

Action

Contact the service representative.

692C Internal failure during delete host.

Action

Contact the service representative.

692D Internal failure during revoke reply.

Action

Contact the service representative.

692E Internal failure during token removal.

Action

Contact the service representative.

692F Internal failure during revoke tokens.

Action

Contact the service representative.

6930 Internal failure during revoke reply.

Action

Contact the service representative.

6931 Internal failure during remove message.

Action

Contact the service representative.

6932 Internal failure during XCF async send.

Action

Contact the service representative.

6933 Internal failure during send revoke.

Action

Contact the service representative.

6934 Internal failure during stkset clean.

Action

Contact the service representative.

6935 Internal failure during TSR.

Action

Contact the service representative.

6936 Internal failure during setattr.

Action

Contact the service representative.

6937 Internal failure during return tokens reply.

Action

Contact the service representative.

6938 Internal failure during store data reply.

Action

Contact the service representative.

6939 Internal failure during get tokens.

Action

Contact the service representative.

693A Internal failure during readlink.

Action

Contact the service representative.

693B Internal failure during setacl.

Action

Contact the service representative.

693C Internal failure during wait for return tokens.

Action

Contact the service representative.

693D Internal failure during fetch data reply.

Action

Contact the service representative.

693E Internal failure during statfs.

Action

Contact the service representative.

693F Internal failure during return tokens reply.

Action

Contact the service representative.

6940 Internal failure during get write token.

Action

Contact the service representative.

6941 Internal failure during write lock.

Action

Contact the service representative.

6942 Internal failure during async grant.

Action

Contact the service representative.

6943 Internal failure during zlc.

Action

Contact the service representative.

6944 Internal failure during assoc open.

Action

Contact the service representative.

6945 Internal failure during assoc iterate.

Action

Contact the service representative.

6946 Internal failure during item create.

Action

Contact the service representative.

6947 Internal failure during item add.

Action

Contact the service representative.

6948 Internal failure during lock.

Action

Contact the service representative.

6949 Internal failure during get tokens and acl.

Action

Contact the service representative.

694A Internal failure during flush tokens.

Action

Contact the service representative.

694B Internal failure during token granting call.

Action

Contact the service representative.

694C Internal failure during grant race.

Action

Contact the service representative.

694D Internal failure during end token grant call.

Action

Contact the service representative.

694E Internal failure during get two tokens.

Action

Contact the service representative.

694F Internal failure during remove two tokens.

Action

Contact the service representative.

697C **internal error - format_send_vectors returned error.**

Action

Contact the service representative.

698A **An operation was attempted against an aggregate that is not owned by any system.**

Action

Determine why aggregate could not be attached to one of the systems in the sysplex, possible reasons are DASD connectivity issues, DASD failures, or DFSMS problems.

698B **internal error - could not send grow-notify message to clients.**

Action

Contact the service representative.

698C **A sysplex client could not re-open an aggregate.**

Action

Takeover attempts from this system could fail. Determine why aggregate could not be opened.

698E **Remount is not allowed when there are NFS V4 share reservations on any file in the File System.**

Action

After the files are closed from the NFS clients the remount can be tried again.

6994 **Received a bad HANG Detect packet from another system.**

Action

Continue to allow the operation. If the problem persists, contact the service representative.

6995 **Received a bad HANG Detect operation field from another system.**

Action

Continue to allow the operation. If the problem persists, contact the service representative.

6996 **Initializing system is downlevel.**

Action

This reason is used internally to indicate an initializing system is downlevel and must terminate.

699A **Clone or unclone in process.**

Action

Retry the operation.

699B **File system not locally mounted on owning system.**

Action

Retry operation after file system is mounted

699C **Aggregate not found.**

Action

Retry the operation with the correct aggregate name.

699D **Aggregate is dead or unowned.**

Action

Contact the service representative.

699E **Aggregate owner cannot process setauditfid.**

Action

Move the aggregate to a zFS which supports setauditfid.

699F **Aggregate is not in the attached state.**

Action

Retry the operation later. The aggregate may be quiesced. The **lsaggr** command can be used to confirm this.

69A0 **Aggregate is not RW.**

Action

Remount the aggregate RW and retry the operation.

69A1 **Could not get storage for block 0.**

Action

Release some storage and retry.

69A2 **Read of block zero failed.**

Action

Ensure there is connectivity to the aggregate and retry.

69A3 **Aggregate has a non-zero auditfid.**

Action

Retry with the force or old option.

69A4 **Invalid force or old value.**

Action

Retry with a valid force or old option.

69A5 **asevent create, queue io or wait failed.**

Action

Contact the service representative.

69A7 **Not allowed to use this directory on this system.**

Action

Retry operation from a system with the proper PTF level applied.

69A8 **Aggregate could not be opened on this system.**

Action

The aggregate is owned by a member running a release of zFS prior to z/OS V1R12 and/or this particular file system is running non-sysplex aware. This system is running zFS sysplex-aware. zFS fails the catchup mount because we cannot allocate the file system shared. The prior release zFS or non-sysplex aware zFS system has allocated the file system exclusive. This is normal. z/OS UNIX will function ship zFS requests from the z/OS V1R12 sysplex-aware systems to the owning system. Or, the aggregate is owned by a member running zFS sysplex-aware and you are trying to move the aggregate to a system where zFS is running non-sysplex aware.

69A9 **Multi-file system operations not allowed in a sysplex.**

Action

An operation was attempted that is targeted for a multi-filesystem aggregate or is otherwise not compatible with an HFS-compatibility mode aggregate. This is normal as multi-filesystem aggregates are not allowed in a parallel sysplex.

69AA **A long-running operation was interrupted by an unmount, a file system shutdown command, or a cancel command. This is normal for long-running operations.**

Action

To continue the long-running operation, you will need to restart it.

69AB **A system on the ready list could not be found on the target of an NSQUERY.**

Action

Internal error

69AC **A system on the ready list is not ready on the target of an NSQUERY.**

Action

Internal error

69AC **A system on the ready list is not ready on the target of an NSQUERY.**

Action

Internal error

69AD **A system missing from the ready list is ready on the target of an NSQUERY.**

Action

Internal error

EFxxrrrr

Action

Contact IBM service.

69BA	The owner of a file system went down during the forwarding of a PFSCCTL call or the file system is unowned.
-------------	--

Action

Retry the operation.

69BB	A sysplex level admin system cannot takeover R/W aggregate for READ purposes at this time.
-------------	---

Action

Retry the operation.

69BD	An internal error was encountered while finding aggregate owner.
-------------	---

Action

Contact IBM service.

69BE	SVC 26 Listcat call returned an error.
-------------	---

Action

Verify that the data set exists. Try issuing Listcat against the data set.

69BF	Multi aggregate cannot be detached because it is cloning.
-------------	--

Action

Reissue the detach after the clone completes.

69C0	A client thinks an aggr is unowned and the owner is still up.
-------------	--

Action

The owner fails the start takeover that the client sends.

69C1	zFS address space is terminating, all operations will fail.
-------------	--

Action

Contact IBM Service.

69C2	An aggregate cannot be formatted to a size greater than 4TB.
-------------	---

Action

Specify a smaller size or recreate the linear dataset.

69C3	New owner has requested to fail takeover.
-------------	--

Action

Turn off FAILTAKEOVER operator command and try again.

69C5	The connect target is no longer the owner.
-------------	---

Action

The takeover fails. No action is required.

69C6 **UNIX System Services has supplied invalid input to zFS.**

Action

UNIX System Services should have taken a diagnostic dump. If not, obtain a dump of UNIX System Services using SLIP on the reason code as documented in *z/OS UNIX System Services Messages and Codes*, and then contact IBM service.

69C7 **The link count of the version 4 directory would exceed the limit.**

Action

The number of sub-directories that can be in a version 4 directory is 65535, which includes . (dot) and .. (dot dot). Creating another directory would cause this limit to be exceeded.

69C8 **The link count of the file would exceed the limit.**

Action

The number of links to a file that can be in a file system is 65535. Creating another link would cause this limit to be exceeded.

69C9 **An XCF message arrived at a system but the message already timed out.**

Action

Refer to zFS publications regarding message timeouts.

69CA **Too many concurrent opens were attempted for the same file.**

Action

Verify the file was closed when appropriate. Try reducing the number of concurrent opens for the file.

69CB **An invalid value was specified for the file format.**

Action

Retry the operation with a valid file format.

69CC **A sysplex config command for sysplex_filesys_sharemode was issued but this is not a sysplex=filesys environment.**

Action

Do not issue a sysplex config command for sysplex_filesys_sharemode when you are not in a sysplex=filesys environment.

69CD **Error with issuing a LOCATE call on an HFS-compat aggregate.**

Action

Verify that the dataset is properly cataloged and that the catalog is accessible.

6A00 **CHAGGR_REQ eyecatcher invalid.**

Action

The eyecatcher in the CHAGGR_REQ structure is incorrect. It must be CARQ.

6A01 **CHAGGR_REQ length invalid.**

Action

See the zFS application programming interface information in *z/OS File System Administration*.

6A02 **CHAGGR_REQ version invalid.**

Action

See *z/OS File System Administration* for assistance.

6A03 **CHAGGR_REQ reserved invalid.**

Action

CHAGGR_REQ reserved fields must be set to binary zeros.

6A04 **CHAGGR_REQ increment invalid.**

Action

The increment percent must be greater than or equal to 1 and less than or equal to 99.

6A05 **CHAGGR_REQ threshold invalid.**

Action

The threshold percent must be greater than or equal to 1 and less than or equal to 99.

6A06 **An invalid value was specified for the aggrfull aggregate attribute.**

Action

Try again after changing the value to OFF or xx,yy where xx is a threshold percentage and yy is an increment percentage.

6A07 **Aggregate not found.**

Action

The aggregate specified cannot be found. Correct the aggregate name and try again.

6A08 **An invalid value was specified for the aggrgrow aggregate attribute.**

Action

For the **zfsadm chaggr** command you can specify ON or OFF. For the API you can specify 1 or 2. Try again after correcting the value.

6A09 **The aggregate attribute cannot be changed to both -aggrgrow on and -aggrgrow off.**

Action

Limit your request to one attribute value and try again.

6A0A	The message notifying clients about attribute changes for an aggregate could not be sent.
Action	
Use the return code to resolve the problem and try the command again. If the problem persists, contact the service representative.	
6A0C	Unexpected error attempting to sync the metadata for a file system object.
Action	
Contact the service representative.	
6A0D	Unexpected error attempting to reserve bitmap blocks for sysplex client.
Action	
Contact the service representative.	
6A0E	Unexpected error attempting to update indirect blocks for a file at a sysplex server.
Action	
Contact the service representative.	
6A0F	Unexpected error attempting to create indirect blocks for a file at a sysplex server.
Action	
Contact the service representative.	
6A10	Internal error during forward of a getattr operation.
Action	
Contact the service representative.	
6A11	Internal error during forward of an fsync_file operation.
Action	
Contact the service representative.	
6A12	Internal error during forward of a close operation.
Action	
Contact the service representative.	
6A13	Internal error during forward of a trunc operation.
Action	
Contact the service representative.	
6A17	Internal error during forward of a read operation.

Action

Contact the service representative.

6A18	Internal error during forward of a write operation.
-------------	--

Action

Contact the service representative.

6A19	Internal error during forward of a readlink operation.
-------------	---

Action

Contact the service representative.

6A1A	Internal error during forward of a link operation.
-------------	---

Action

Contact the service representative.

6A1B	Internal error during forward of a lookup operation.
-------------	---

Action

Contact the service representative.

6A1C	Internal error during forward of a remove operation.
-------------	---

Action

Contact the service representative.

6A1D	Internal error during forward of a create operation.
-------------	---

Action

Contact the service representative.

6A1E	Internal error during forward of a readdir operation.
-------------	--

Action

Contact the service representative.

6A1F	Internal error during forward of a rename operation.
-------------	---

Action

Contact the service representative.

6A24	Could not create an entry in a version 5 directory.
-------------	--

Action

Contact the service representative if the return code is EMVSERR (157).

6A25	Internal error - could not access a version 5 directory block.
-------------	---

Action

Contact the service representative.

6A27 **Internal error: Indirect block is already allocated to the file.**

Action

Contact the service representative.

6A28 **Aggregate sync operation failed.**

Action

Contact the service representative.

6A29 **Aggregate is busy. It cannot perform the operation requested.**

Action

The aggregate is busy with another operation that conflicts with this operation. Try your request again. If it continues to fail, contact the service representative.

6A2A **Too many ZFS recoveries are in progress. Operation not performed.**

Action

Try the request again.

6A2B **The metadata backing cache does not exist so cannot be resized.**

Action

Ensure there is a metaback_cache_size statement in your parm file and restart zFS.

6A2C **Directory limit exceeded, directory too big to add entries.**

Action

Put names in another directory or prune entries in the directory.

6A2D **zFS was internally restarted and the file system failed to remount.**

Action

Unmount/remount the file system to clear the condition.

6A2E **The operation failed due to a disabled aggregate. An aggregate can be temporarily disabled due to an I/O error, an internal zFS error, or a dataset reopen operation fails. If the aggregate is encrypted, this can be caused by ICSF problems. File requests will fail while the aggregate is disabled. zFS will attempt to re-enable the aggregate automatically.**

Action

If the aggregate is encrypted, correct any ICSF problem so the aggregate can be re-enabled. When the aggregate is re-enabled, the file can be closed and reopened and the request can be attempted again. If zFS cannot re-enable the aggregate automatically, you will need to unmount/mount or remount the aggregate before the file request can be attempted again.

6A2F **Operation failed due to disabled aggregate being remounted.**

Action

The aggregate is temporarily disabled due to an internal zFS error. Quiesce requests will fail while the aggregate is being internally remounted. Retry the quiesce after the remount completes.

6A30 **Too many tasks in the ZFS address space are in progress. Operation not performed.**

Action

Try the request again as other tasks may have ended.

6A31 **ZFS storage is becoming limited, so a storage obtain was failed. Operation not performed.**

Action

Try the request again as storage may have become available.

6A32 **New version aggregates cannot be processed on this system.**

Action

If this is a primary mount, re-issue the mount on a system that supports higher version aggregates. If this is a catchup mount, no action is needed. z/OS UNIX will function ship operations to the z/OS UNIX owner.

6A33 **An unexpected error was detected while opening the aggregate VSAM linear dataset.**

Action

One possible cause is that the client system is not using the same physical dataset as the owning system. Ensure that each system is referencing the same physical dataset. For more information about sharing file systems, see the sections on using the zFS read/write sysplex-aware file systems in [z/OS File System Administration](#). Otherwise contact the service representative.

6B00 **Quiesce for clone not allowed.**

Action

Clones are no longer supported.

6B01 **Mount of .bak or aggregate with .bak not allowed.**

Action

Clones are no longer supported. Attach the aggregate and delete the .bak file system. Then, try the mount again.

6B02 **Clone not allowed.**

Action

Clones are no longer supported.

6B03 **Create not allowed.**

Action

Multi-file system aggregates are no longer supported.

6B04 **Rename not allowed.**

Action

Multi-file system aggregates are no longer supported.

6B05 **Mount or attach not allowed for multi-file systems.**

Action

Multi-file system aggregates are not supported.

6B06 **Setquota not allowed.**

Action

Multi-file system aggregates are no longer supported.

6B0C **Error occurred during a directory read at a sysplex client for an extended (v5) directory.**

Action

This reason code will be accompanied by a return code and preceding error messages that provide more information about the problem. Possible causes are transmission failures, running out of memory, or a zFS internal error.

6B0D **The specified aggregate cannot be changed to version 1.5 or the specified directory cannot be changed to version 5 because the owner is downlevel, there are downlevel members in the sysplex or the aggregate is mounted read-only. Because the aggregate version cannot be changed, any specified path will not be converted.**

Action

Try the command again after removing all downlevel members or remounting the aggregate read-write.

6B0E **The input directory is already version 4.**

Action

Specify a version 5 directory and retry the operation.

6B0F **The input directory is already version 5.**

Action

Specify a version 4 directory and retry the operation.

6B10 **The input FOBJ_INFO buffer is invalid.**

Action

The application must provide a buffer large enough to hold an FOBJ_INFO structure, have the proper eye catcher set in the structure, a proper version field, and a length field that is at least as large as the FOBJ_INFO structure.

6B11 **Grow size invalid.**

Action

See *z/OS File System Administration* for the maximum allowable size when growing an aggregate. When using the grow API, how you specify the grow size depends on the AGGR_ID version that is used to specify the aggregate name.

6B12 Conversion of aggregate to version 1.5 during a mount failed.

Action

Retry the command after specifying an option. For detailed help issue **zfsadm chaggr -help**.

6B13 An option was not specified for the **zfsadm chaggr** command or **pfctl**.

Action

Run the salvager program against the aggregate and retry the mount.

6B14 The path specified is not a directory or is already a version 5 directory.

Action

Retry the command specifying a version 4 directory.

6B15 The aggregate could not be found.

Action

Ensure the aggregate is not being formatted. Retry the command specifying a valid aggregate name.

6B16 Could not reset the backup bit in the DSCB.

Action

Retry the command after correcting any error conditions.

6B17 **AGGR_FORMAT** has an invalid **af_newauditfid** value.

Action

Valid **af_newauditfid** values are 0 and 1. Correct the value and retry.

6B18 **AGGR_FORMAT** has an invalid **af_aggrversion** value.

Action

Valid **af_aggrversion** values are 0, 4 or 5. Version 1.5 aggregates cannot be formatted in a sysplex containing members at z/OS V1R13 or prior. Correct the value and retry.

6B19 A write operation was attempted against a directory with a corrupted tree.

Action

Attempt to repair the corrupted directory by using **zfsadm convert** or the salvager program and try again.

6B1A A directory conversion operation was attempted in a sysplex containing downlevel systems.

Action

Conversion not allowed in a sysplex containing downlevel systems. Retry when all sysplex members are at z/OS V2R1 or later.

6B1B Internal failure during conversion.

Action

Contact the service representative.

6B1C **Either an error was encountered performing automatic conversion or a previous error was reported. Once an error is reported, all future automatic conversions for this directory will fail.**

Action

Use zfsadm convert to perform the conversion or remount the file system to restore automatic conversion.

6B1E **Aggregate is already version 1.5.**

Action

No action is needed.

6B1F **Failed changing aggregate to version 1.5.**

Action

Ensure the correct directory is specified and retry.

6B20 **Failed changing directories to version 5.**

Action

Ensure the correct directory is specified and retry.

6B21 **The input aggregate is not version 1.5.**

Action

Specify a directory in a version 1.5 aggregate and retry the operation.

6B22 **Failed changing aggregate to version 1.4 or directory to version 4.**

Action

Verify the aggregate is a version 1.5 aggregate. The aggregate cannot be greater than 4T in size. A directory cannot be greater than 4G in size and cannot have a link count greater than 65535. Correct the error and try the operation again, if still needed.

6B23 **Format failed because the zFS kernel is not available and an aggregate version was not specified.**

Action

Start the zFS kernel or supply an aggregate version and try the operation again.

6B24 **The value specified for the format size or grow option is invalid.**

Action

Specify a value in the range [1..536870912] for version 4 aggregates and [1..2147483648] for version 5 aggregates and try again.

6B25 **The value specified for the format logsize option is invalid.**

Action

Specify a logsize value in the range [13..16384] and try again.

6B26 **Sync interval bigger than 21474836 second maximum.**

Action

Specify a sync interval smaller than 21474836.

6B27 **Statistics Query Parm0 value is invalid.**

Action

The Parm0 value for all Statistics Query subcommands must be 32.

6B28 **Statistics Query Parm1 value is invalid.**

Action

The Parm1 value for all Statistics Query subcommands must be 80.

6B48 **Unable to get storage to perform the requested operation.**

Action

Make more space available and reissue the request.

6B49 **Internal failure during stkm statistics processing.**

Action

An internal failure occurred. Contact the service representative.

6B4A **Internal failure during DASD extent processing for the aggregate.**

Action

An internal failure occurred. Contact the service representative.

6B4B **Could not increase log cache to requested size.**

Action

Determine whether zFS is low on memory. If not, then contact the service representative.

6B4C **Could not decrease log cache to requested size.**

Action

Determine whether zFS is low on memory. If not, then contact the service representative.

6B4D **FSINFO attach FAILED.**

Action

Contact the service representative.

6B4E **Internal error while processing FSINFO request.**

Action

Contact the service representative.

6B4F **Failed obtaining memory for an ACL dataspace operation.**

Action

Determine whether zFS is low on memory. If not, then contact the service representative.

6B50 **Bad parameter value passed in FSINFO_REQUEST structure.**

Action

Correct the bad parameter and retry the operation.

6B51 **There are too many in-progress PFCTL commands.**

Action

zFS has reached its limit of concurrent PFCTL calls. This is generally not typical. Contact the service representative.

6B52 **Not enough storage to perform read or write request.**

Action

The zFS address space is most likely out of storage. Try to decrease storage usage by decreasing cache sizes. Or, you can try to break up the operation into smaller requests. Then retry the operation.

6B53 **zFS is shutting down.**

Action

zFS will not process the requested operation. If this situation persists, contact the service representative.

6B54 **The FSINFO_REQUEST structure contains an incorrect resumeName. Only characters valid in a zFS aggregate name are allowed.**

Action

Correct the name and retry the operation.

6B55 **The FSINFO_REQUEST structure contains an incorrect patternName. Only characters valid in a zFS aggregate name or a wildcard character are allowed.**

Action

Correct the name and retry the operation.

6B56 **The data set is not a VSAM linear data set.**

Action

Define the VSAM data set as linear and then retry the operation.

6B5D **An error was encountered processing the zero link count list.**

Action

If the aggregate is mounted, it will be disabled. Salvage the aggregate to correct the error.

6B5E This system cannot become the aggregate's zFS owner because it is precluded by the aggregate's automove option.

Action:

If this system is allowed to become the owner, modify the aggregate's automove option.

6B5F Unable to get the automove option for the aggregate.

Action

Contact the service representative.

6B60 z/OS UNIX System Services routine `osi_ctl` encountered an error.

Action

Contact the service representative.

6B61 Hi-used-RBA is more than hi-allocated-RBA. This should be verified with the TSO LISTCAT command.

Action

Contact the service representative.

6C00 UNIX System Services has supplied an invalid ACL type to zFS.

Action

Contact the service representative.

6C04 There is no salvage operation to cancel. The aggregate is not currently being salvaged.

Action

If the specified aggregate is correct, there is no action to take. Otherwise specify the correct aggregate and try again.

6C0B The mount parm for the aggregate attribute could not be updated. zFS will attempt a samemode remount to restore the aggregate attribute to the value of the mount parm.

Action

Determine whether the aggregate attribute and mount parm match. Issue `zfsadm fsinfo` to get the aggregate attributes and `D OMVS,F,N=` to get the mount parms. If they do not match, issue another samemode remount. If the problem persists, contact your service representative.

6C0C Aggregate attributes cannot be changed in a sysplex where some systems are at a release prior to z/OS V2R3. The server console may contain more information.

Action

Try the command again when no systems of the sysplex are at a release prior to z/OS V2R3.

6C0D Only one aggregate attribute can be changed at a time.

Action

More than one aggregate attribute was specified. Try the command again with only one aggregate attribute.

Action

Correct the values and try the command again.

6C2F **The specified zFS operation was not canceled because it is not in progress.**

Action

If the specified aggregate is correct, there is no action to take. Otherwise, specify the correct aggregate and try again.

6C30 **Request failed due to salvage in process.**

Action:

The request failed because zFS is busy doing a salvage operation. Retry the request when the salvage completes.

6C31 **Request failed due to shrink in process.**

Action:

The request failed because zFS is busy doing a shrink operation. Retry the request when the shrink completes.

6C32 **Cannot change a sharemode attribute when not in a sysplex.**

Action:

Do not specify `-rwshare` or `-norwshare` on the `zfsadm chaggr` command when not in a sysplex.

6C33 **The aggregate log could not be recovered.**

Action:

Contact your service representative.

6C34 **Salvage found minor errors in the aggregate.**

Action:

Issue `zfsadm salvage` without the `-verifyonly` option to correct the errors.

6C35 **Salvage found major errors in the aggregate.**

Action:

Contact your service representative.

6C36 **The corruption could not be repaired.**

Action:

Contact your service representative.

6C37 **The corruption in version 1.5 directories could not be repaired.**

Action

Contact your service representative.

6C3E **Request failed due to encryption in progress.**

Action

The request failed because zFS is busy with an encryption operation. Retry the request when the encryption completes or cancel the encryption and reissue the command.

6C3F **Request failed due to decryption in progress.**

Action

The request failed because zFS is busy with a decryption operation. Retry the request when the decryption completes or cancel the decryption and reissue the command.

6C40	Invalid encrypt or decrypt type. The type must be 1, 2, or 3, indicating encrypt, decrypt, or cancel.
Action	
Specify the correct type and try the operation again.	
6C41	Salvage must perform log recovery but cannot because the aggregate was mounted read-only. Salvage terminates.
Action	
Mount the aggregate read-write and try the operation again.	
6C42	Salvage found inconsistencies in the aggregate that cannot be repaired because the aggregate is mounted read-only.
Action	
Mount the aggregate read-write and try the operation again.	
6C43	The fr_version field in FSINFO_REQUEST is invalid.
Action	
Provide an fr_version value acceptable for the zFS release and try the operation again.	
6C44	The fr_selection field in FSINFO_REQUEST is invalid with the fr_version specified.
Action	
Provide an fr_selection value consistent with fr_version and try the operation again.	
6C45	Internal failure sending sync request.
Action	
Contact the service representative.	
6C46	Error during sync operation.
Action	
Correct the problem and try the operation again. If the problem persists, contact the service representative.	
6C47	Unknown error during shrink operation.
Action	
Check the system log for message IOEZ00904E to get additional error information. If the problem cannot be resolved, contact the service representative.	
6C48	There is no shrink operation to cancel. The aggregate is not currently shrinking.
Action	
If the aggregate specified is correct, there is no action to take. Otherwise specify the correct aggregate and try again.	
6C49	The space used in the aggregate is larger than the specified new size.

Action

Use the **zfsadm fsinfo** command to determine the size of the aggregate, the amount of free space, and the amount of space in use. Try the command again with a new size that is larger than the amount of space currently being used.

6C4A **The new size is smaller than the minimum aggregate size.**

Action

Use the **zfsadm fsinfo** command to determine the size of the aggregate, the amount of free space, and the amount of space in use. Try the command again with a new size that is larger than the amount of space currently being used.

6C4F **Unexpected error resizing the pool used for encryption and compression.**

Action

Contact the service representative.

6C50 **Error finding file system information.**

Action

Ensure that the file system is mounted and try the command again. If the problem persists, contact the service representative.

6C51 **Encrypt, decrypt, compress, or decompress is not allowed for aggregate with version earlier than 1.5.**

Action

Ensure that the aggregate version is at least version 1.5. To find the aggregate version, use either the **zfsadm fsinfo** or MODIFY FSINFO command. If the problem persists, contact the service representative.

6C52 **Could not convert the aggregate to version 1.4 because it is partially encrypted or compressed.**

Action

Ensure that the aggregate is fully decompressed and decrypted before converting it to version 1.4.

6C53 **Error during aggregate space release operation.**

Action

Check the system log for message IOEZ00897E to get additional error information. If the problem cannot be resolved, contact the service representative.

6C54 **The VSAM LDS is not formatted, is not marked as intended for zFS, and cannot be formatted at mount.**

Action

Format the VSAM LDS using the **zfsadm format** command and try the mount again.

6C55 **The VSAM LDS is not formatted and zFS could not determine whether a format is allowed during mount. The MVS catalog service could not be loaded.**

Action:

Format the VSAM LDS using the **zfsadm format** command and try the mount again.

6C56 **An MVS catalog operation could not be performed on the VSAM LDS.**

Action:

Take the action documented in message IOEZ00908I.

6C57 **The VSAM LDS could not be marked as a zFS aggregate. The MVS catalog service failed.**

Action:

Take the action documented in message IOEZ00336I.

6C58 **The VSAM LDS could not be formatted at mount.**

Action:

Correct the problem and format the VSAM LDS using the **zfsadm format** command, then try the mount again.

6C5B **Request failed due to compression in progress.**

Action

The request failed because zFS is busy doing a compression operation. Retry the request when the operation completes.

6C5C **Request failed due to decompression in progress.**

Action

The request failed because zFS is busy doing a decompression operation. Retry the request when the operation completes.

6C5D **Could not use the edcfixd option to fix the user file cache. The edcfixd option is limited to 14GB user file caches or less.**

Action:

Either make the user file cache smaller or do not specify the edcfixd option.

6C5E **Could not allow the encryption request.**

Action:

An encryption request is only allowed if all sysplex members are release z/OS V2R3 or later. Retry the command when all systems are migrated to z/OS V2R3 or later.

6C5F **Could not allow the compression request.**

Action:

A compression request is only allowed if all sysplex members are release z/OS V2R3 or later. Retry the command when all systems are migrated to z/OS V2R3 or later.

6C60 **The key label specified is too long.**

Action

Specify a key label of length 64 or less and try again.

6C61 **The offset specified on a backup-read request is not the next-in-line offset for the file or EOF was returned on a previous read of the file.**

Action

Correct the program and try again.

6C62 **The argument length for a backup ioctl request is less than the size of a BK_REQ structure or the BK_REQ argument itself contains a bad length, eye catcher, or version.**

Action

Correct the argument length or the BK_REQ fields and try again.

6C63 Reserved fields of the BK_REQ structure are not 0 for a backup ioctl request.

Action

Correct the program and try again.

6C64 You cannot register a backup of a file that is already registered for backup.

Action

Correct the program and try again.

6C65 You cannot register a backup of a file that is not opened for read.

Action

Correct the program and try again.

6C66 You cannot register a backup for an object that is not a file.

Action

Correct the program and try again. A backup is only allowed for regular files.

6C67 A process is attempting to perform a backup-read for a file that it did not register with.

Action

Correct the program and try again. A backup-register must be performed by the process before it reads the file.

6C68 The bk_request field in the BK_REQ structure contains an invalid value for a backup ioctl request.

Action

Correct the program and try again.

6C69 When migrating a file system from HFS to zFS, an inode being created already exists.

Action

Contact the service representative.

6C6A The bk_bufferSize specified is too small.

Action

Change the program to obtain a larger buffer. Then retry the operation with the larger buffer size.

6C6B An abend occurred in the security product while processing this operation.

6C76 ICSF could not find the specified key label.

Action

A key label must be known to ICSF before it can be used when defining or encrypting a zFS aggregate.

6C77 An attempt to format a file system failed because the file system cannot be encrypted or compressed with aggregate version 1.4.

Action

Either request formatting with the `-version5` option or do not use the `-encrypt` or `-compress` option.

6C78 ICSF returned an error while validating a key label.

Action

Take the action documented in message IOEZ00959E.

6C79 A key label was specified but ICSF is not running.

Action

Ensure that ICSF is running and try the command again.

6C7A Failed to set or resize the EDC_BUFFER_POOL due to zEDC error.

Action

Check error message IOEZ00962E to see the zEDC return code and reason code. Fix the error and try again.

6C7B Failed to set or resize the user file cache due to page fix error.

Action

Check for error message IOEZ00962E to see the zEDC return code and reason code. Fix the error and try again.

6C7C The key label specified is not associated with an encryption type supported by DFSMS.

Action

Specify another key label and try the command again.

6C7D DFSMS returned an error while opening an aggregate.

Action

See messages IOEZ00964E and IEC161I at the console for more information.

6C7E `-keylabel1` is not allowed when an aggregate already has a key label.

Action

Remove `-keylabel1` and try the command again.

6C7F Shrinking of the aggregate was not allowed by a management class.

Action

See IOEZ00966E for further information about the aggregate shrink being disallowed. If a management class did not prevent the shrink, contact the service representative.

6C80 **Encrypt or decrypt is not allowed if the aggregate is already in a partially compressed state.**

Action

The **encrypt** and **decrypt** commands can be issued only when the aggregate is either not compressed or is fully compressed. Retry the command after the aggregate has been fully decompressed or compressed.

6C81 **Compress or decompress is not allowed if the aggregate is already in a partially encrypted state.**

Action

The **compress** and **decompress** commands can be issued only when the aggregate is either not encrypted or is fully encrypted. Retry the command after the aggregate has been fully decrypted or encrypted.

6C82 **The target file system of a migration is not newly formatted with an allowed version.**

Action:

Reformat the file system with an allowed version, using the `-overwrite` keyword if necessary. Retry the migration. If the problem persists, contact the service representative.

6C83 **Invalid cancel type. The type must be 1 to cancel an encryption command or 2 to cancel a decryption command.**

Action:

Specify the correct cancel type and try the operation again.

6C84 **Invalid cancel type. The type must be 3 to cancel a compression command or 4 to cancel a decompression command.**

Action:

Specify the correct cancel type and try the operation again.

6C85 **Can only delete idle threads from the `long_cmd_threads` thread pool.**

Action:

Try canceling a long-running command to make `long_cmd_threads` thread pool foreground threads idle, or wait for a long-running command to complete. After the necessary long-running commands are completed, try resizing the thread pool again.

6C86 ***Parms4* must be zero if *parms1* indicates a non-cancel command, such as `encrypt`, `decrypt`, `compress` or `decompress`. To cancel an `encrypt`, `decrypt`, `compress` or `decompress` command, *parms1* must be 3.**

Action:

Correct *parms4* or *parms1* and try the operation again.

6C87 **Either you are not properly authorized for this operation or zFS could not verify your authorization. The subcommand requires `UPDATE` access to the aggregate.**

Action:

Ensure that the proper access is granted and try the operation again.

6C88 **An aggregate with a key label cannot be mounted because ICSF is not initialized.**

Action:

Ensure ICSF is initialized and try the command again.

6C89 **zEDC is not initialized. The compression or decompression operation is failed.**

6C96	Backup of a file is not allowed when it is contained in an aggregate that is owned by a system where zFS does not support file backups.
Action:	Retry the command after ensuring that file backups are supported on every system that can become the zFS owner of the aggregate. If this problem persists, contact your service representative.
6C97	Backup of a file in a NORSHARE aggregate is not allowed when it is initiated from a system that is not the zFS owner of the aggregate containing the file.
Action:	Use the zfsadm fsinfo or MODIFY FSINFO command to determine which system is the zFS owning system of the aggregate and run the application which uses the zFS backup API from that system. Alternatively, make the local system the zFS owner of the aggregate by using chmount .
6C98	Performance moves for an aggregate are suspended when files in the aggregate are being backed up.
Action:	No user action. zFS may attempt the performance move again after all file backups for the aggregate have concluded.
6C99	Backup snapshot is no longer valid. This may be due to the original zFS owner going down.
Action:	Start the backup again after the zFS owner is established.
6C9A	Backup of a file is not allowed when it is contained in an aggregate that is encrypting or decrypting.
Action:	Try the operation again after the encryption or decryption completes.
6C9B	Backup of a file is not allowed when it is contained in an aggregate that is compressing or decompressing.
Action:	Try the operation again after the compression or decompression completes.
6C9C	Encrypting or decrypting of an aggregate is not allowed if files in it are being backed up.
Action:	Try the operation again after the file backups complete.
6C9D	Compressing or decompressing of an aggregate is not allowed if files in it are being backed up.
Action:	Try the operation again after the file backups complete.
6C9E	You cannot register a backup of a file that is on a version 1.4 aggregate.
Action:	Use the zfsadm convert -aggrversion command to convert the aggregate version to 1.5 and then try again. See z/OS File System Administration for details on converting an existing aggregate to version 1.5.
6C9F	zFS has reached its internal limit for concurrent file backups.
Action:	Try again after in-progress file backups are complete.
6CA0	A sysplex client without high availability mount support (HA) is trying to connect to an HA mounted file system.
Action:	

Retry the operation when the client system is at a level that supports high availability mount.

6CA2 **An invalid value was specified for the -ha aggregate attribute.**

Action:

The -ha aggregate attribute takes a value of either ON or OFF. When using the Change Aggregate Attributes API, use the corresponding value, which is either 1 (for ON) or 2 (for OFF).

6CA3 **The aggregate attribute cannot be changed to both -ha and -noha.**

Action:

Limit your request to one attribute value and try again.

6CA5 **The HA aggregate attribute cannot be used in a sysplex where some systems do not support high availability file systems.**

Action:

Ensure that APAR OA57508 is applied to all systems in the sysplex and try the command again.

6D0A **An internal error occurred during the migration of a zFS file system to another zFS file system.**

Action:

Contact the service representative.

6D0B **An aggregate cannot be migrated if it is already being salvaged, shrunk, encrypted, decrypted, compressed, decompressed, moved, converted to v5, or being migrated.**

Action:

Try the migration again after the mutually exclusive operation is done.

6D0C **A salvage, shrink, encrypt, decrypt, compress, decompress, ownership change, aggregate version conversion, file backup, or another migration operation is not allowed while an aggregate is the source of a migration.**

Action:

Try the operation again after the migration is done.

6D0D **A migrating file system is in an unexpected state during a migration stop request.**

Action:

If this is unexpected, contact the service representative.

6D0E **An aggregate cannot be migrated if it is not at version 1.4 or later.**

Action:

Try the migration again after the aggregate has been converted to version 1.4 or later.

6D11 **Backup of a file is not allowed when it is contained in an aggregate that is being migrated.**

Action:

Try the backup operation again when the migration is complete.

6D12 **Sharemode attributes cannot be changed when the aggregate is the source of a migration.**

Action:

Try the command again when the migration is done.

Appendix B. Accessibility

Accessible publications for this product are offered through [IBM Documentation \(www.ibm.com/docs/en/zos\)](http://www.ibm.com/docs/en/zos).

If you experience difficulty with the accessibility of any z/OS information, send a detailed message to the [Contact the z/OS team web page \(www.ibm.com/systems/campaignmail/z/zos/contact_z\)](http://www.ibm.com/systems/campaignmail/z/zos/contact_z) or use the following mailing address.

IBM Corporation
Attention: MHVRCFS Reader Comments
Department H6MA, Building 707
2455 South Road
Poughkeepsie, NY 12601-5400
United States

Accessibility features

Accessibility features help users who have physical disabilities such as restricted mobility or limited vision use software products successfully. The accessibility features in z/OS can help users do the following tasks:

- Run assistive technology such as screen readers and screen magnifier software.
- Operate specific or equivalent features by using the keyboard.
- Customize display attributes such as color, contrast, and font size.

Consult assistive technologies

Assistive technology products such as screen readers function with the user interfaces found in z/OS. Consult the product information for the specific assistive technology product that is used to access z/OS interfaces.

Keyboard navigation of the user interface

You can access z/OS user interfaces with TSO/E or ISPF. The following information describes how to use TSO/E and ISPF, including the use of keyboard shortcuts and function keys (PF keys). Each guide includes the default settings for the PF keys.

- *z/OS TSO/E Primer*
- *z/OS TSO/E User's Guide*
- *z/OS ISPF User's Guide Vol I*

Dotted decimal syntax diagrams

Syntax diagrams are provided in dotted decimal format for users who access IBM Documentation with a screen reader. In dotted decimal format, each syntax element is written on a separate line. If two or more syntax elements are always present together (or always absent together), they can appear on the same line because they are considered a single compound syntax element.

Each line starts with a dotted decimal number; for example, 3 or 3.1 or 3.1.1. To hear these numbers correctly, make sure that the screen reader is set to read out punctuation. All the syntax elements that have the same dotted decimal number (for example, all the syntax elements that have the number 3.1)

are mutually exclusive alternatives. If you hear the lines 3.1 USERID and 3.1 SYSTEMID, your syntax can include either USERID or SYSTEMID, but not both.

The dotted decimal numbering level denotes the level of nesting. For example, if a syntax element with dotted decimal number 3 is followed by a series of syntax elements with dotted decimal number 3.1, all the syntax elements numbered 3.1 are subordinate to the syntax element numbered 3.

Certain words and symbols are used next to the dotted decimal numbers to add information about the syntax elements. Occasionally, these words and symbols might occur at the beginning of the element itself. For ease of identification, if the word or symbol is a part of the syntax element, it is preceded by the backslash (\) character. The * symbol is placed next to a dotted decimal number to indicate that the syntax element repeats. For example, syntax element *FILE with dotted decimal number 3 is given the format 3 * FILE. Format 3* FILE indicates that syntax element FILE repeats. Format 3* * FILE indicates that syntax element * FILE repeats.

Characters such as commas, which are used to separate a string of syntax elements, are shown in the syntax just before the items they separate. These characters can appear on the same line as each item, or on a separate line with the same dotted decimal number as the relevant items. The line can also show another symbol to provide information about the syntax elements. For example, the lines 5.1*, 5.1 LASTRUN, and 5.1 DELETE mean that if you use more than one of the LASTRUN and DELETE syntax elements, the elements must be separated by a comma. If no separator is given, assume that you use a blank to separate each syntax element.

If a syntax element is preceded by the % symbol, it indicates a reference that is defined elsewhere. The string that follows the % symbol is the name of a syntax fragment rather than a literal. For example, the line 2.1 %OP1 means that you must refer to separate syntax fragment OP1.

The following symbols are used next to the dotted decimal numbers.

? indicates an optional syntax element

The question mark (?) symbol indicates an optional syntax element. A dotted decimal number followed by the question mark symbol (?) indicates that all the syntax elements with a corresponding dotted decimal number, and any subordinate syntax elements, are optional. If there is only one syntax element with a dotted decimal number, the ? symbol is displayed on the same line as the syntax element, (for example 5? NOTIFY). If there is more than one syntax element with a dotted decimal number, the ? symbol is displayed on a line by itself, followed by the syntax elements that are optional. For example, if you hear the lines 5 ?, 5 NOTIFY, and 5 UPDATE, you know that the syntax elements NOTIFY and UPDATE are optional. That is, you can choose one or none of them. The ? symbol is equivalent to a bypass line in a railroad diagram.

! indicates a default syntax element

The exclamation mark (!) symbol indicates a default syntax element. A dotted decimal number followed by the ! symbol and a syntax element indicate that the syntax element is the default option for all syntax elements that share the same dotted decimal number. Only one of the syntax elements that share the dotted decimal number can specify the ! symbol. For example, if you hear the lines 2? FILE, 2.1! (KEEP), and 2.1 (DELETE), you know that (KEEP) is the default option for the FILE keyword. In the example, if you include the FILE keyword, but do not specify an option, the default option KEEP is applied. A default option also applies to the next higher dotted decimal number. In this example, if the FILE keyword is omitted, the default FILE(KEEP) is used. However, if you hear the lines 2? FILE, 2.1, 2.1.1! (KEEP), and 2.1.1 (DELETE), the default option KEEP applies only to the next higher dotted decimal number, 2.1 (which does not have an associated keyword), and does not apply to 2? FILE. Nothing is used if the keyword FILE is omitted.

*** indicates an optional syntax element that is repeatable**

The asterisk or glyph (*) symbol indicates a syntax element that can be repeated zero or more times. A dotted decimal number followed by the * symbol indicates that this syntax element can be used zero or more times; that is, it is optional and can be repeated. For example, if you hear the line 5.1* data area, you know that you can include one data area, more than one data area, or no data area. If you hear the lines 3* , 3 HOST, 3 STATE, you know that you can include HOST, STATE, both together, or nothing.

Notes:

1. If a dotted decimal number has an asterisk (*) next to it and there is only one item with that dotted decimal number, you can repeat that same item more than once.
2. If a dotted decimal number has an asterisk next to it and several items have that dotted decimal number, you can use more than one item from the list, but you cannot use the items more than once each. In the previous example, you can write HOST STATE, but you cannot write HOST HOST.
3. The * symbol is equivalent to a loopback line in a railroad syntax diagram.

+ indicates a syntax element that must be included

The plus (+) symbol indicates a syntax element that must be included at least once. A dotted decimal number followed by the + symbol indicates that the syntax element must be included one or more times. That is, it must be included at least once and can be repeated. For example, if you hear the line 6.1+ data area, you must include at least one data area. If you hear the lines 2+, 2 HOST, and 2 STATE, you know that you must include HOST, STATE, or both. Similar to the * symbol, the + symbol can repeat a particular item if it is the only item with that dotted decimal number. The + symbol, like the * symbol, is equivalent to a loopback line in a railroad syntax diagram.

Notices

This information was developed for products and services that are offered in the USA or elsewhere.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

*IBM Director of Licensing
IBM Corporation
North Castle Drive, MD-NC119
Armonk, NY 10504-1785
United States of America*

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

*Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan*

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

This information could include missing, incorrect, or broken hyperlinks. Hyperlinks are maintained in only the HTML plug-in output for IBM Documentation. Use of hyperlinks in other output formats of this information is at your own risk.

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

*IBM Corporation
Site Counsel
2455 South Road*

Poughkeepsie, NY 12601-5400
USA

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Terms and conditions for product documentation

Permissions for the use of these publications are granted subject to the following terms and conditions.

Applicability

These terms and conditions are in addition to any terms of use for the IBM website.

Personal use

You may reproduce these publications for your personal, noncommercial use provided that all proprietary notices are preserved. You may not distribute, display or make derivative work of these publications, or any portion thereof, without the express consent of IBM.

Commercial use

You may reproduce, distribute and display these publications solely within your enterprise provided that all proprietary notices are preserved. You may not make derivative works of these publications, or

reproduce, distribute or display these publications or any portion thereof outside your enterprise, without the express consent of IBM.

Rights

Except as expressly granted in this permission, no other permissions, licenses or rights are granted, either express or implied, to the publications or any information, data, software or other intellectual property contained therein.

IBM reserves the right to withdraw the permissions granted herein whenever, in its discretion, the use of the publications is detrimental to its interest or, as determined by IBM, the above instructions are not being properly followed.

You may not download, export or re-export this information except in full compliance with all applicable laws and regulations, including all United States export laws and regulations.

IBM MAKES NO GUARANTEE ABOUT THE CONTENT OF THESE PUBLICATIONS. THE PUBLICATIONS ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.

IBM Online Privacy Statement

IBM Software products, including software as a service solutions, ("Software Offerings") may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user, or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information, specific information about this offering's use of cookies is set forth below.

Depending upon the configurations deployed, this Software Offering may use session cookies that collect each user's name, email address, phone number, or other personally identifiable information for purposes of enhanced user usability and single sign-on configuration. These cookies can be disabled, but disabling them will also eliminate the functionality they enable.

If the configurations deployed for this Software Offering provide you as customer the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent.

For more information about the use of various technologies, including cookies, for these purposes, see IBM's Privacy Policy at ibm.com/privacy and IBM's Online Privacy Statement at ibm.com/privacy/details in the section entitled "Cookies, Web Beacons and Other Technologies," and the "IBM Software Products and Software-as-a-Service Privacy Statement" at ibm.com/software/info/product-privacy.

Policy for unsupported hardware

Various z/OS elements, such as DFSMSdfp, JES2, JES3, and MVS, contain code that supports specific hardware servers or devices. In some cases, this device-related element support remains in the product even after the hardware devices pass their announced End of Service date. z/OS may continue to service element code; however, it will not provide service related to unsupported hardware devices. Software problems related to these devices will not be accepted for service, and current service activity will cease if a problem is determined to be associated with out-of-support devices. In such cases, fixes will not be issued.

Minimum supported hardware

The minimum supported hardware for z/OS releases identified in z/OS announcements can subsequently change when service for particular servers or devices is withdrawn. Likewise, the levels of other software products supported on a particular release of z/OS are subject to the service support lifecycle of those

products. Therefore, z/OS and its product publications (for example, panels, samples, messages, and product documentation) can include references to hardware and software that is no longer supported.

- For information about software support lifecycle, see: [IBM Lifecycle Support for z/OS \(www.ibm.com/software/support/systemsz/lifecycle\)](http://www.ibm.com/software/support/systemsz/lifecycle)
- For information about currently-supported IBM hardware, contact your IBM representative.

Trademarks

IBM, the IBM logo, and ibm.com are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at [Copyright and Trademark information \(www.ibm.com/legal/copytrade.shtml\)](http://www.ibm.com/legal/copytrade.shtml).

UNIX is a registered trademark of The Open Group in the United States and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

Index

Numerics

0001 [387](#), [389](#)
0002 [387](#), [389](#)
0003 [387](#)
0005 [387](#)
0006 [387](#)
0007 [387](#)
0008 [387](#)
0009 [387](#)
000A [388](#)
000B [388](#)
000D [388](#)
000E [388](#)
000F [388](#)
0010 [388](#)
0011 [388](#)
0012 [388](#)
0013 [388](#)
0014 [389](#)
0017 [389](#)
0018 [389](#)
6001 [390](#)
6002 [390](#)
6003 [390](#)
6004 [390](#)
6005 [390](#)
6006 [390](#)
6007 [390](#)
6008 [390](#)
6009 [390](#)
600A [391](#)
600B [391](#)
600C [391](#)
600D [391](#)
600E [391](#)
600F [391](#)
6010 [391](#)
6011 [391](#)
6012 [391](#)
6013 [392](#)
6014 [392](#)
6015 [392](#)
6016 [392](#)
6017 [392](#)
6018 [392](#)
6019 [392](#)
601A [392](#)
601B [392](#)
601C [392](#)
601D [392](#)
601E [393](#)
601F [393](#)
6020 [393](#)
6021 [393](#)
6023 [393](#)
6024 [393](#)

6025 [393](#)
6026 [393](#)
6027 [393](#)
6028 [393](#)
6029 [394](#)
602A [394](#)
602B [394](#)
602C [394](#)
602D [394](#)
602E [394](#)
6030 [394](#)
6031 [394](#)
6032 [394](#)
6033 [394](#)
6034 [395](#)
6035 [395](#)
6036 [395](#)
6037 [395](#)
6038 [395](#)
6039 [395](#)
603A [395](#)
603B [395](#)
603C [395](#)
603D [396](#)
603E [396](#)
603F [396](#)
6040 [396](#)
6041 [396](#)
6042 [396](#)
6043 [396](#)
6044 [396](#)
6045 [396](#)
6046 [396](#)
6047 [397](#)
6048 [397](#)
6049 [397](#)
604A [397](#)
604B [397](#)
604C [397](#)
604D [397](#)
604E [397](#)
604F [397](#)
6050 [397](#)
6051 [398](#)
6052 [398](#)
6053 [398](#)
6054 [398](#)
6055 [398](#)
6056 [398](#)
6057 [398](#)
6058 [398](#)
605A [399](#)
605B [399](#)
605C [399](#)
605D [399](#)
605E [399](#)
6060 [399](#)

6061 399
6062 399
6063 399
6064 400
6065 400
6066 400
6067 400
6068 400
6069 400
606A 400
606B 400
606C 400
606D 400
606E 400
6070 401
6071 401
6072 401
6073 401
6074 401
6075 401
6076 401
6077 401
6078 401
6079 401
607A 402
607B 402
607C 402
6080 402
6081 402
6082 402
6083 402
6084 402
6085 402
6086 402
6087 403
6088 403
6089 403
608A 403
608B 403
608C 403
608D 403
608E 403
608F 403
6090 403
6091 404
6093 404
6094 404
6095 404
6096 404
6097 404
6098 404
6099 404
609A 404
609B 404
609D 405
609E 405
609F 405
60A0 405
60A2 405
60A3 405
60A5 405
60A6 405
60A7 405
60A8 405

60A9 406
60AA 406
60AB 406
60AC 406
60AF 406
60B0 406
60B1 406
60B9 406
60BC 406
60BD 406
60BE 407
60C0 407
60C2 407
60C3 407
60C4 407
60C5 407
60C6 407
60C7 407
60C8 407
60C9 407
60CA 408
60CB 408
60CC 408
60CD 408
60D1 408
60D4 408
60D5 408
60D8 408
60D9 408
60DA 408
60DD 409
60DE 409
60DF 409
60E0 409
60E1 409
60E2 409
60E3 409
60E4 409
60E5 409
60E6 409
60E7 410
60E8 410
60E9 410
60EA 410
60EB 410
60ED 410
60EE 410
60EF 410
60F2 410
60FE 410
6108 411
6109 411
610A 411
610B 411
610C 411
610D 411
610E 411
610F 411
6111 411
6112 411
6113 412
6114 412
6115 412
6117 412

611B 412
611C 412
611D 412
611E 412
611F 412
6120 412
6121 413
6125 413
6126 413
6128 413
6130 413
6132 413
6133 413
6136 413
6137 413
6138 413
6139 414
613A 414
613B 414
613C 414
613D 414
613E 414
613F 414
6140 414
6141 414
6142 414
6143 415
6144 415
6145 415
6146 415
6147 415
6148 415
614A 415
614B 415
614C 415
614D 415
614E 416
614F 416
6150 416
6151 416
6161 416
6162 416
6163 416
6164 416
6165 416
6166 416
6167 417
6168 417
6200 417
6201 417
6202 417
6203 417
6204 417
6205 417
6206 417
6207 417
6208 418
6209 418
620A 418
620B 418
620C 418
620D 418
620E 418
6223 418

6224 418
6225 418
6238 419
6239 419
623A 419
623B 419
623E 419
623F 419
6240 419
6241 419
6246 419
6248 419
624D 420
624E 420
624F 420
6252 420
6253 420
6254 420
6255 420
6258 420
6259 420
625C 420
625D 421
6260 421
6261 421
6262 421
6263 421
6264 421
6265 421
6266 421
6267 421
6268 421
6269 422
626A 422
626B 422
626D 422
626E 422
626F 422
6270 422
6271 422
6273 422
6274 423
6277 423
6278 423
6279 423
627A 423
629E 423
629F 423
62A0 423
62A1 423
62A2 423
62A3 424
62A4 424
62A5 424
62A6 424
62A7 424
62AA 424
62AB 424
62AC 424
62AD 424
62AE 424
62AF 425
62B0 425
62B01 482

<u>62B3</u>	<u>425</u>	<u>6400</u>	<u>431</u>
<u>62B4</u>	<u>425</u>	<u>6401</u>	<u>431</u>
<u>62B5</u>	<u>425</u>	<u>6402</u>	<u>431</u>
<u>62B8</u>	<u>425</u>	<u>6403</u>	<u>431</u>
<u>62B9</u>	<u>425</u>	<u>6404</u>	<u>432</u>
<u>62BA</u>	<u>425</u>	<u>6405</u>	<u>432</u>
<u>62BB</u>	<u>425</u>	<u>6406</u>	<u>432</u>
<u>62BC</u>	<u>425</u>	<u>6407</u>	<u>432</u>
<u>62BD</u>	<u>426</u>	<u>6408</u>	<u>432</u>
<u>62BE</u>	<u>426</u>	<u>6409</u>	<u>432</u>
<u>62BF</u>	<u>426</u>	<u>640A</u>	<u>432</u>
<u>62C0</u>	<u>426</u>	<u>640B</u>	<u>432</u>
<u>62C3</u>	<u>426</u>	<u>640C</u>	<u>432</u>
<u>62C4</u>	<u>426</u>	<u>640D</u>	<u>432</u>
<u>62C5</u>	<u>426</u>	<u>640E</u>	<u>433</u>
<u>62C8</u>	<u>426</u>	<u>640F</u>	<u>433</u>
<u>62C9</u>	<u>426</u>	<u>6410</u>	<u>433</u>
<u>62CA</u>	<u>426</u>	<u>6411</u>	<u>433</u>
<u>62CB</u>	<u>427</u>	<u>6412</u>	<u>433</u>
<u>62CC</u>	<u>427</u>	<u>6413</u>	<u>433</u>
<u>62CF</u>	<u>427</u>	<u>6414</u>	<u>433</u>
<u>62D0</u>	<u>427</u>	<u>6415</u>	<u>433</u>
<u>62D1</u>	<u>427</u>	<u>6416</u>	<u>433</u>
<u>62D2</u>	<u>427</u>	<u>6417</u>	<u>433</u>
<u>62D3</u>	<u>427</u>	<u>6418</u>	<u>434</u>
<u>62D4</u>	<u>427</u>	<u>6419</u>	<u>434</u>
<u>62D5</u>	<u>427</u>	<u>641A</u>	<u>434</u>
<u>62D6</u>	<u>427</u>	<u>6420</u>	<u>434</u>
<u>62D7</u>	<u>428</u>	<u>6421</u>	<u>434</u>
<u>62D8</u>	<u>428</u>	<u>6422</u>	<u>434</u>
<u>62D9</u>	<u>428</u>	<u>6423</u>	<u>434</u>
<u>62DA</u>	<u>428</u>	<u>6424</u>	<u>434</u>
<u>62DB</u>	<u>428</u>	<u>6425</u>	<u>434</u>
<u>62DC</u>	<u>428</u>	<u>6426</u>	<u>435</u>
<u>62E1</u>	<u>428</u>	<u>6427</u>	<u>435</u>
<u>62E2</u>	<u>428</u>	<u>6428</u>	<u>435</u>
<u>62E3</u>	<u>428</u>	<u>6429</u>	<u>435</u>
<u>62E4</u>	<u>428</u>	<u>642A</u>	<u>435</u>
<u>62E5</u>	<u>429</u>	<u>642B</u>	<u>435</u>
<u>62E6</u>	<u>429</u>	<u>6440</u>	<u>435</u>
<u>6300</u>	<u>429</u>	<u>6441</u>	<u>435</u>
<u>6301</u>	<u>429</u>	<u>6443</u>	<u>435</u>
<u>6310</u>	<u>429</u>	<u>6444</u>	<u>436</u>
<u>6311</u>	<u>429</u>	<u>6445</u>	<u>436</u>
<u>6312</u>	<u>429</u>	<u>6446</u>	<u>436</u>
<u>6313</u>	<u>429</u>	<u>6500</u>	<u>436</u>
<u>6314</u>	<u>429</u>	<u>6501</u>	<u>436</u>
<u>6315</u>	<u>430</u>	<u>6503</u>	<u>436</u>
<u>6316</u>	<u>430</u>	<u>6504</u>	<u>436</u>
<u>6317</u>	<u>430</u>	<u>6505</u>	<u>436</u>
<u>6318</u>	<u>430</u>	<u>6506</u>	<u>436</u>
<u>6319</u>	<u>430</u>	<u>6508</u>	<u>436</u>
<u>631A</u>	<u>430</u>	<u>6509</u>	<u>437</u>
<u>631B</u>	<u>430</u>	<u>650A</u>	<u>437</u>
<u>631C</u>	<u>430</u>	<u>650B</u>	<u>437</u>
<u>631D</u>	<u>430</u>	<u>650C</u>	<u>437</u>
<u>631E</u>	<u>430</u>	<u>650D</u>	<u>437</u>
<u>631F</u>	<u>430</u>	<u>650F</u>	<u>437</u>
<u>6320</u>	<u>431</u>	<u>6512</u>	<u>437</u>
<u>6321</u>	<u>431</u>	<u>6513</u>	<u>437</u>
<u>6322</u>	<u>431</u>	<u>6514</u>	<u>438</u>
<u>6323</u>	<u>431</u>	<u>6515</u>	<u>438</u>
<u>6324</u>	<u>431</u>	<u>6516</u>	<u>438</u>
<u>6325</u>	<u>431</u>	<u>6517</u>	<u>438</u>

6518 438
6519 438
651A 438
651B 438
651C 438
651D 438
651E 439
651F 439
6520 439
6521 439
6522 439
652B 439
652C 439
652D 439
6609 439
660A 439
6611 440
6617 440
6638 440
6639 440
663B 440
663D 440
663E 440
663F 440
6640 440
6641 441
6649 441
664A 441
664B 441
664C 441
664D 441
664E 441
664F 441
6650 441
6651 441
6652 442
6653 442
6654 442
6655 442
6656 442
6657 442
6658 442
6659 442
665A 442
665B 442
665C 443
665D 443
665E 443
665F 443
6660 443
6661 443
6662 443
6663 443
666B 443
666C 443
666D 444
666F 444
6670 444
6671 444
6672 444
6673 444
6674 444
6675 444
6676 444

6677 444
6680 444
6681 445
6682 445
6683 445
6684 445
6685 445
6686 445
6689 445
668A 445
6690 445
6696 446
6697 446
6698 446
6699 446
66A0 446
66A1 446
66A4 446
66A6 446
66A7 446
66A8 446
66AA 447
66AC 447
66AD 447
66B1 447
66B2 447
66B4 447
66B5 447
66B8 447
66B9 447
66BA 448
66BB 448
66BC 448
66BD 448
66BE 448
66C0 448
66C1 448
66C2 448
66C3 448
66C4 448
66C5 449
66C6 449
66C7 449
66C8 449
66C9 449
66CA 449
66CB 449
66CC 449
66CD 449
66CE 449
66CF 450
66D0 450
66D1 450
66D2 450
66D3 450
66D4 450
66D5 450
66D6 450
66D7 450
66DF 451
66E0 451
66E1 451
66E4 451
66E5 451

66E6 451
66E7 451
66E8 451
66E9 451
66EA 451
66EB 452
66EC 452
66ED 452
66EE 452
66EF 452
66F0 452
66F1 452
6700 452
6701 452
6702 452
6703 453
6704 453
6705 453
6706 453
6707 453
6708 453
6709 453
670A 453
670B 453
670C 453
670D 454
670E 454
670F 454
6711 454
6714 454
6715 454
6716 454
6717 454
6718 454
6719 454
671A 455
671B 455
671D 455
671E 455
671F 455
6720 455
6721 455
6722 455
6723 455
6724 456
6726 456
6727 456
6728 456
6729 456
672A 456
672B 456
6730 456
6738 456
673D 456
6743 457
6745 457
6746 457
6747 457
6748 457
6749 457
674A 457
674B 457
674C 457
674D 457

674E 458
6750 458
6751 458
6752 458
6753 458
6754 458
6755 458
675D 458
675E 458
675F 458
6760 459
6763 459
6764 459
6769 459
676A 459
676B 459
676D 459
676E 459
676F 459
6770 459
6771 460
6772 460
6775 460
6776 460
6800 460
6806 460
6809 460
680A 460
680B 460
680C 461
6900 461
6901 461
6903 461
6904 461
6905 461
6906 461
6907 461
6908 461
6909 461
690A 462
690B 462
690C 462
690D 462
690E 462
690F 462
6910 462
6911 462
6912 462
6913 462
6914 463
6915 463
6916 463
6917 463
6918 463
6919 463
691A 463
691B 463
691C 463
691D 463
691E 464
691F 464
6920 464
6921 464
6922 464

6923 464
6924 464
6925 464
6926 464
6927 464
6928 465
6929 465
692A 465
692B 465
692C 465
692D 465
692E 465
692F 465
6930 465
6931 465
6932 466
6933 466
6934 466
6935 466
6936 466
6937 466
6938 466
6939 466
693A 466
693B 466
693C 467
693D 467
693E 467
693F 467
6940 467
6941 467
6942 467
6943 467
6944 467
6945 467
6946 468
6947 468
6948 468
6949 468
694A 468
694B 468
694C 468
694D 468
694E 468
694F 468
6950 469
6951 469
6952 469
6953 469
6954 469
6955 469
6956 469
6957 469
6958 469
6959 469
695A 470
695B 470
695C 470
695D 470
695E 470
695F 470
6960 470
6961 470
6962 470

6963 470
6964 471
6965 471
6967 471
6968 471
6969 471
696A 471
696B 471
696C 471
696D 471
697C 472
698A 472
698B 472
698C 472
698E 472
6994 472
6995 472
6996 472
699A 472
699B 472
699C 473
699D 473
699E 473
699F 473
69A0 473
69A1 473
69A2 473
69A3 473
69A4 473
69A5 473
69A7 474
69A8 474
69A9 474
69AA 474
69AB 474
69AC 474
69AD 474
69AE 475
69AF 475
69B0 475
69B1 475
69B2 475
69B3 475
69B4 475
69B5 475
69B6 475
69B7 475
69BA 476
69BB 476
69BD 476
69BE 476
69BF 476
69C0 476
69C1 476
69C2 476
69C3 476
69C5 476
69C6 477
69C7 477
69C8 477
69C9 477
69CA 477
69CB 477
69CC 477

69CD 477
6A00 477
6A01 478
6A02 478
6A03 478
6A04 478
6A05 478
6A06 478
6A07 478
6A08 478
6A09 478
6A0A 479
6A0C 479
6A0D 479
6A0E 479
6A0F 479
6A10 479
6A11 479
6A12 479
6A13 479
6A17 479
6A18 480
6A19 480
6A1A 480
6A1B 480
6A1C 480
6A1D 480
6A1E 480
6A1F 480
6A24 480
6A25 480
6A27 481
6A28 481
6A29 481
6A2A 481
6A2B 481
6A2C 481
6A2D 481
6A2E 481
6A2F 481
6A30 482
6A31 482
6A32 482
6A33 482
6B00 482
6B02 482
6B03 482
6B04 482
6B05 483
6B06 483
6B0C 483
6B0D 483
6B0E 483
6B0F 483
6B10 483
6B11 483
6B12 484
6B13 484
6B14 484
6B15 484
6B16 484
6B17 484
6B18 484
6B19 484

6B1A 484
6B1B 484
6B1C 485
6B1E 485
6B1F 485
6B20 485
6B21 485
6B22 485
6B23 485
6B24 485
6B25 485
6B26 486
6B27 486
6B28 486
6B48 486
6B49 486
6B4A 486
6B4B 486
6B4C 486
6B4D 486
6B4E 486, 487
6B50 487
6B51 487
6B52 487
6B53 487
6B54 487
6B55 487
6B5E 488
6B5F 488
6B60 488
6B61 488
6C00 488
6C04 488
6C0B 488
6C0C 488
6C0D 488
6C0E 489
6C0F 489
6C10 489
6C11 489
6C12 489
6C13 489
6C14 489
6C15 489
6C18 489
6C19 490
6C1A 490
6C1B 490
6C1C 490
6C1D 490
6C21 490
6C22 490
6C23 490
6C24 491
6C25 491
6C26 491
6C27 491
6C28 491
6C29 491
6C2A 491
6C2B 491
6C2C 491
6C2D 491
6C2F 492

[6C30 492](#)
[6C31 492](#)
[6C32 492](#)
[6C33 492](#)
[6C34 492](#)
[6C35 492](#)
[6C36 492](#)
[6C37 492](#)
[6C3E 492](#)
[6C3F 492](#)
[6C40 493](#)
[6C41 493](#)
[6C42 493](#)
[6C43 493](#)
[6C45 493](#)
[6C46 493](#)
[6C47 493](#)
[6C48 493](#)
[6C49 493](#)
[6C4A 494](#)
[6C4F 494](#)
[6C50 494](#)
[6C51 494](#)
[6C52 494](#)
[6C53 494](#)
[6C54 494](#)
[6C55 494](#)
[6C56 495](#)
[6C57 495](#)
[6C58 495](#)
[6C5B 495](#)
[6C5C 495](#)
[6C5D 495](#)
[6C5E 495](#)
[6C5F 495](#)
[6C60 495](#)
[6C61 495](#)
[6C62 495](#)
[6C63 496](#)
[6C64 496](#)
[6C65 496](#)
[6C66 496](#)
[6C67 496](#)
[6C68 496](#)
[6C69 496](#)
[6C6A 496](#)
[6C6B 496](#)
[6C6C 497](#)
[6C6E 497](#)
[6C6F 497](#)
[6C71 497](#)
[6C72 497](#)
[6C73 497](#)
[6C74 497](#)
[6C75 497](#)
[6C76 498](#)
[6C77 498](#)
[6C78 498](#)
[6C79 498](#)
[6C7A 498](#)
[6C7B 498](#)
[6C7C 498](#)
[6C7D 498](#)
[6C7E 498](#)

[6C7F 498](#)
[6C80 499](#)
[6C81 499](#)
[6C82 499](#)
[6C83 499](#)
[6C84 499](#)
[6C85 499](#)
[6C86 499](#)
[6C87 499](#)
[6C88 499](#)
[6C89 499](#)
[6C8A 500](#)
[6C8B 500](#)
[6C8C 500](#)
[6C8D 500](#)
[6C8E 500](#)
[6C8F 500](#)
[6C90 500](#)
[6C92 500](#)
[6C93 500](#)
[6C94 500](#)
[6C95 500](#)
[6C96 501](#)
[6C97 501](#)
[6C98 501](#)
[6C99 501](#)
[6C9A 501](#)
[6C9B 501](#)
[6C9C 501](#)
[6C9D 501](#)
[6C9E 501](#)
[6C9F 501](#)
[6CA0 501](#)
[6CA2 502](#)
[6CA3 502](#)
[6CA5 502](#)
[6D0A 502](#)
[6D0B 502](#)
[6D0C 502](#)
[6D0D 502](#)
[6D0E 502](#)
[6D11 502](#)
[6D12 502](#)

A

accessibility
 contact IBM [503](#)
 features [503](#)
assistive technologies [503](#)

C

contact
 z/OS [503](#)

D

Distributed File Service
 messages changes in V2R2 [xxi](#)
 messages changes in V2R3 [xiii](#)

F

feedback [vii](#)

H

Health Checker

messages, changed [xi](#), [xv](#), [xxii](#)

messages, deleted [xv](#), [xxiv](#)

messages, new [xi](#), [xxi](#)

I

IOEN00100I [223](#)

IOEN00101I [223](#)

IOEN00102I [223](#)

IOEN00103I [223](#)

IOEN00104I [224](#)

IOEN00106I [224](#)

IOEN00107A [224](#)

IOEN00109A [225](#)

IOEN00110A [225](#)

IOEN00111A [225](#)

IOEN00112A [226](#)

IOEN00113A [226](#)

IOEN00114A [226](#)

IOEN00115A [226](#)

IOEN00116A [227](#)

IOEN00117A [227](#)

IOEN00118A [227](#)

IOEN00119I [228](#)

IOEN00120A [228](#)

IOEN00121A [228](#)

IOEN00122A [229](#)

IOEN00123A [229](#)

IOEN00124A [229](#)

IOEN00125A [230](#)

IOEN00126A [230](#)

IOEN00127A [230](#)

IOEN00128I [230](#)

IOEN00129A [231](#)

IOEN00130A [231](#)

IOEN00131A [231](#)

IOEN00132A [232](#)

IOEN00133A [232](#)

IOEN00134A [232](#)

IOEN00136A [233](#)

IOEN00146A [233](#)

IOEN00147I [233](#)

IOEN00151I [234](#)

IOEN00152I [234](#)

IOEN00153I [234](#)

IOEN00154A [235](#)

IOEN00195I [235](#)

IOEN00196I [235](#)

IOEN00200A [235](#)

IOEN00201A [236](#)

IOEN00202A [236](#)

IOEN00203A [237](#)

IOEN00204A [237](#)

IOEN00205A [237](#)

IOEN00207A [238](#)

IOEN00208I [238](#)

IOEN00209A [239](#)

IOEN00210A [239](#)

IOEN00211A [240](#)

IOEN00212A [240](#)

IOEN00213A [240](#)

IOEN00214A [241](#)

IOEN00215A [241](#)

IOEN00216A [241](#)

IOEN00217I [242](#)

IOEN00218I [242](#)

IOEN00219I [243](#)

IOEN00220A [243](#)

IOEN00221A [243](#)

IOEN00222A [244](#)

IOEN00223A [244](#)

IOEN00224A [244](#)

IOEN00300A [245](#)

IOEN00301A [245](#)

IOEN00302A [246](#)

IOEN00303A [246](#)

IOEN00304I [246](#)

IOEN00305I [246](#)

IOEN00306E [247](#)

IOEN00307E [247](#)

IOEN00308E [247](#)

IOEN00401E [248](#)

IOEN00407I [248](#)

IOEN00408I [248](#)

IOEN00411I [248](#)

IOEN00412I [249](#)

IOEN00413I [249](#)

IOEN00414I [250](#)

IOEN00415I [250](#)

IOEN00416I [250](#)

IOEN00417I [250](#)

IOEN00418I [251](#)

IOEN00419I [251](#)

IOEN00420I [251](#)

IOEN00421I [252](#)

IOEN00422I [252](#)

IOEN00424I [252](#)

IOEN00425E [253](#)

IOEN00426I [253](#)

IOEN00427E [253](#)

IOEN00438I [254](#)

IOEN00439I [254](#)

IOEN00440I [254](#)

IOEN00441I [255](#)

IOEN00505A [255](#)

IOEN00506I [255](#)

IOEN00507I [256](#)

IOEN00508I [256](#)

IOEN00509A [257](#)

IOEN00510A [257](#)

IOEN00511I [257](#)

IOEN00512I [258](#)

IOEN00514A [258](#)

IOEN00515I [259](#)

IOEP00001A [261](#)

IOEP00002A [263](#)

IOEP01000A [264](#)

IOEP01001A [264](#)

IOEP01100I [264](#)

IOEP01101I [265](#)

[IOEP01102I](#) [265](#)
[IOEP01103I](#) [265](#)
[IOEP01104I](#) [266](#)
[IOEP01105I](#) [266](#)
[IOEP01106E](#) [266](#)
[IOEP01107A](#) [267](#)
[IOEP01108A](#) [267](#)
[IOEP01109A](#) [268](#)
[IOEP01110A](#) [268](#)
[IOEP01111A](#) [268](#)
[IOEP01113A](#) [269](#)
[IOEP01114A](#) [269](#)
[IOEP01115A](#) [269](#)
[IOEP01116A](#) [270](#)
[IOEP01117A](#) [270](#)
[IOEP01118A](#) [270](#)
[IOEP01119A](#) [271](#)
[IOEP01120A](#) [271](#)
[IOEP01121A](#) [272](#)
[IOEP01122I](#) [272](#)
[IOEP01123A](#) [273](#)
[IOEP01124A](#) [273](#)
[IOEP01125A](#) [274](#)
[IOEP01126A](#) [274](#)
[IOEP01127A](#) [274](#)
[IOEP01128A](#) [275](#)
[IOEP01129A](#) [275](#)
[IOEP01130A](#) [276](#)
[IOEP01131A](#) [276](#)
[IOEP01132A](#) [277](#)
[IOEP01133A](#) [277](#)
[IOEP01134A](#) [277](#)
[IOEP01135A](#) [278](#)
[IOEP01136A](#) [278](#)
[IOEP01137A](#) [279](#)
[IOEP01138A](#) [279](#)
[IOEP01139A](#) [280](#)
[IOEP01140A](#) [280](#)
[IOEP01141A](#) [281](#)
[IOEP01142A](#) [281](#)
[IOEP01143E](#) [282](#)
[IOEP01144E](#) [282](#)
[IOEP01145E](#) [283](#)
[IOEP01146A](#) [283](#)
[IOEP01147A](#) [283](#)
[IOEP01148A](#) [284](#)
[IOEP01149A](#) [284](#)
[IOEP01150A](#) [285](#)
[IOEP01151A](#) [285](#)
[IOEP01152A](#) [286](#)
[IOEP01153A](#) [286](#)
[IOEP01154A](#) [287](#)
[IOEP01155A](#) [287](#)
[IOEP01156A](#) [287](#)
[IOEP01160A](#) [288](#)
[IOEP01161A](#) [288](#)
[IOEP01162A](#) [289](#)
[IOEP01164A](#) [289](#)
[IOEP01165A](#) [290](#)
[IOEP01166A](#) [290](#)
[IOEP01167A](#) [291](#)
[IOEP01168A](#) [291](#)
[IOEP01169A](#) [292](#)
[IOEP01170A](#) [292](#)

[IOEP01171A](#) [292](#)
[IOEP01172A](#) [293](#)
[IOEP01173A](#) [293](#)
[IOEP01174A](#) [294](#)
[IOEP01175A](#) [294](#)
[IOEP01176I](#) [295](#)
[IOEP01517I](#) [295](#)
[IOEP01518A](#) [295](#)
[IOEP01519A](#) [296](#)
[IOEP01520A](#) [296](#)
[IOEP01700A](#) [297](#)
[IOEP01701A](#) [297](#)
[IOEP01702A](#) [298](#)
[IOEP01703A](#) [298](#)
[IOEP01704A](#) [299](#)
[IOEP01705A](#) [299](#)
[IOEP01706A](#) [300](#)
[IOEP01707A](#) [300](#)
[IOEP01708A](#) [300](#)
[IOEP01709A](#) [301](#)
[IOEP01710A](#) [301](#)
[IOEP01711I](#) [302](#)
[IOEP01712I](#) [303](#)
[IOEP01713I](#) [303](#)
[IOEP12300I](#) [303](#)
[IOEP12301I](#) [304](#)
[IOEP12303I](#) [304](#)
[IOEP12304I](#) [304](#)
[IOEP12305I](#) [305](#)
[IOEP12306I](#) [305](#)
[IOEP12307I](#) [305](#)
[IOEP12308I](#) [306](#)
[IOEP12309I](#) [306](#)
[IOEP12310I](#) [306](#)
[IOEP12311I](#) [306](#)
[IOEP12312I](#) [307](#)
[IOEP12313I](#) [307](#)
[IOEP12314I](#) [307](#)
[IOEP12315I](#) [308](#)
[IOEP12318I](#) [308](#)
[IOEP12319I](#) [308](#)
[IOEP12320I](#) [309](#)
[IOEP12321I](#) [309](#)
[IOEP12322I](#) [309](#)
[IOEP12323I](#) [310](#)
[IOEP12400I](#) [310](#)
[IOEP12401I](#) [310](#)
[IOEP12402E](#) [311](#)
[IOEP12403I](#) [311](#)
[IOEW16000A](#) [313](#)
[IOEW16001A](#) [313](#)
[IOEW16003A](#) [313](#)
[IOEW16004A](#) [314](#)
[IOEW16005A](#) [314](#)
[IOEW16006I](#) [314](#)
[IOEW16007A](#) [315](#)
[IOEW16008A](#) [315](#)
[IOEW16009A](#) [315](#)
[IOEW16010A](#) [316](#)
[IOEW16011A](#) [316](#)
[IOEW16012A](#) [317](#)
[IOEW16013A](#) [317](#)
[IOEW16021A](#) [317](#)
[IOEW16022I](#) [317](#)

IOEW16023I	318	IOEW16093E	339
IOEW16024A	318	IOEW16094E	340
IOEW16025A	318	IOEW16095I	340
IOEW16026A	319	IOEW16096I	340
IOEW16027I	319	IOEW16097E	341
IOEW16028I	319	IOEW16098I	341
IOEW16029A	320	IOEW16099I	341
IOEW16030I	320	IOEW16100E	341
IOEW16031A	320	IOEW16101I	342
IOEW16032A	321	IOEW16102I	342
IOEW16033I	321	IOEW16103I	342
IOEW16034I	321	IOEW16104I	343
IOEW16035I	322	IOEW16105E	343
IOEW16036I	322	IOEW16106A	343
IOEW16037I	322	IOEW16107A	344
IOEW16038I	323	IOEW16108A	344
IOEW16039I	323	IOEW16109I	344
IOEW16040I	323	IOEW16112A	345
IOEW16041I	324	IOEW16113A	345
IOEW16042A	324	IOEW16114A	345
IOEW16043A	325	IOEW16115A	345
IOEW16044A	325	IOEW16116A	346
IOEW16045A	325	IOEW16117A	346
IOEW16046A	326	IOEW16118A	346
IOEW16047A	326	IOEW16119E	347
IOEW16048I	326	IOEW16120I	347
IOEW16055I	327	IOEW16121I	347
IOEW16056I	327	IOEW16122A	348
IOEW16057I	327	IOEW16123A	348
IOEW16058I	328	IOEW16125E	348
IOEW16059A	328	IOEW16126E	349
IOEW16060A	328	IOEW16127E	349
IOEW16061A	328	IOEW16128E	350
IOEW16062A	329	IOEW16129E	350
IOEW16063A	329	IOEW16130A	351
IOEW16064A	329	IOEW16131A	351
IOEW16065A	330	IOEW16132I	351
IOEW16066A	330	IOEW16133A	352
IOEW16067A	330	IOEW16134I	352
IOEW16068A	331	IOEW16135I	353
IOEW16069A	331	IOEW16136I	353
IOEW16070I	332	IOEW16137A	354
IOEW16071A	332	IOEW16138I	354
IOEW16072I	332	IOEW16139I	354
IOEW16073A	333	IOEW16142I	355
IOEW16074I	333	IOEW16143I	355
IOEW16075A	333	IOEW16144E	356
IOEW16076A	334	IOEW16145E	356
IOEW16077I	334	IOEW16146E	357
IOEW16078A	335	IOEW16147E	357
IOEW16079I	335	IOEW16148E	357
IOEW16080I	335	IOEW16149E	358
IOEW16081A	336	IOEW16150E	358
IOEW16082A	336	IOEW16151E	359
IOEW16083I	336	IOEW16152I	359
IOEW16084I	337	IOEW16153E	360
IOEW16085A	337	IOEW16154E	360
IOEW16086A	337	IOEW16155I	361
IOEW16087A	337	IOEW16156E	361
IOEW16088I	338	IOEW16157I	361
IOEW16089I	338	IOEW16158I	362
IOEW16090I	338	IOEW16159E	362
IOEW16091A	339	IOEW16160E	363
IOEW16092E	339	IOEW16161E	363

[IOEW16162E](#) [363](#)
[IOEW16163E](#) [364](#)
[IOEW16164E](#) [364](#)
[IOEX18000A](#) [365](#)
[IOEX18001A](#) [365](#)
[IOEX18002A](#) [365](#)
[IOEX18003A](#) [366](#)
[IOEX18101A](#) [366](#)
[IOEX18102A](#) [366](#)
[IOEX18103A](#) [367](#)
[IOEX18104A](#) [367](#)
[IOEX18105A](#) [367](#)
[IOEX18106A](#) [367](#)
[IOEX18107A](#) [368](#)
[IOEX18108A](#) [368](#)
[IOEX18109A](#) [368](#)
[IOEX18110I](#) [369](#)
[IOEX18111A](#) [369](#)
[IOEX18112I](#) [369](#)
[IOEX18113I](#) [370](#)
[IOEX18114I](#) [370](#)
[IOEX18115A](#) [370](#)
[IOEX18116A](#) [371](#)
[IOEX18117A](#) [371](#)
[IOEX18118A](#) [371](#)
[IOEX18119A](#) [372](#)
[IOEX18120A](#) [372](#)
[IOEX18121A](#) [372](#)
[IOEX18122I](#) [373](#)
[IOEX18123I](#) [373](#)
[IOEX18124E](#) [373](#)
[IOEX18125E](#) [374](#)
[IOEX18126A](#) [374](#)
[IOEX18127A](#) [374](#)
[IOEX18200A](#) [374](#)
[IOEX18201A](#) [375](#)
[IOEX18202A](#) [375](#)
[IOEX18203A](#) [375](#)
[IOEX18204A](#) [376](#)
[IOEX18205A](#) [376](#)
[IOEX18206A](#) [376](#)
[IOEX18207A](#) [377](#)
[IOEX18208A](#) [377](#)
[IOEX18209A](#) [377](#)
[IOEX18210I](#) [378](#)
[IOEX18211A](#) [378](#)
[IOEX18212A](#) [378](#)
[IOEX18215I](#) [379](#)
[IOEX18217I](#) [379](#)
[IOEX18218A](#) [379](#)
[IOEX18219A](#) [379](#)
[IOEX18220I](#) [380](#)
[IOEX18221A](#) [380](#)
[IOEX18222A](#) [380](#)
[IOEX18223A](#) [381](#)
[IOEX18224I](#) [381](#)
[IOEX18225A](#) [381](#)
[IOEX18226A](#) [382](#)
[IOEX18227A](#) [382](#)
[IOEX18228I](#) [382](#)
[IOEX18229A](#) [383](#)
[IOEX18230A](#) [383](#)
[IOEX18231I](#) [383](#)
[IOEX18232A](#) [384](#)

[IOEX18233I](#) [384](#)
[IOEX18234I](#) [384](#)
[IOEZ00001E](#) [5](#)
[IOEZ00002E](#) [5](#)
[IOEZ00003E](#) [5](#)
[IOEZ00004I](#) [5](#)
[IOEZ00005I](#) [6](#)
[IOEZ00006E](#) [6](#)
[IOEZ00007A](#) [6](#)
[IOEZ00008E](#) [6](#)
[IOEZ00009I](#) [6](#)
[IOEZ00010A](#) [7](#)
[IOEZ00011A](#) [7](#)
[IOEZ00012A](#) [7](#)
[IOEZ00013A](#) [7](#)
[IOEZ00014A](#) [7](#)
[IOEZ00015A](#) [8](#)
[IOEZ00016I](#) [8](#)
[IOEZ00017A](#) [8](#)
[IOEZ00018A](#) [8](#)
[IOEZ00019E](#) [9](#)
[IOEZ00020I](#) [9](#)
[IOEZ00023E](#) [9](#)
[IOEZ00024E](#) [9](#)
[IOEZ00025I](#) [9](#)
[IOEZ00032I](#) [10](#)
[IOEZ00033E](#) [10](#)
[IOEZ00034I](#) [10](#)
[IOEZ00035I](#) [10](#)
[IOEZ00036I](#) [10](#)
[IOEZ00037I](#) [10](#)
[IOEZ00038E](#) [11](#)
[IOEZ00039E](#) [11](#)
[IOEZ00040E](#) [11](#)
[IOEZ00041I](#) [11](#)
[IOEZ00042I](#) [11](#)
[IOEZ00043I](#) [12](#)
[IOEZ00044I](#) [12](#)
[IOEZ00045I](#) [12](#)
[IOEZ00046E](#) [12](#)
[IOEZ00048I](#) [12](#)
[IOEZ00050I](#) [12](#)
[IOEZ00051I](#) [13](#)
[IOEZ00052I](#) [13](#)
[IOEZ00053E](#) [13](#)
[IOEZ00054E](#) [13](#)
[IOEZ00055I](#) [14](#)
[IOEZ00057I](#) [14](#)
[IOEZ00062A](#) [14](#)
[IOEZ00064I](#) [14](#)
[IOEZ00068E](#) [14](#)
[IOEZ00069I](#) [15](#)
[IOEZ00070E](#) [15](#)
[IOEZ00077I](#) [15](#)
[IOEZ00078E](#) [15](#)
[IOEZ00079I](#) [15](#)
[IOEZ00080A](#) [16](#)
[IOEZ00081A](#) [16](#)
[IOEZ00082A](#) [16](#)
[IOEZ00083A](#) [16](#)
[IOEZ00084E](#) [17](#)
[IOEZ00085E](#) [17](#)
[IOEZ00087I](#) [17](#)
[IOEZ00088I](#) [17](#)

IOEZ00092E	18	IOEZ00209E	32
IOEZ00093E	18	IOEZ00210E	32
IOEZ00094E	18	IOEZ00211E	33
IOEZ00095E	18	IOEZ00212E	33
IOEZ00096E	19	IOEZ00213E	33
IOEZ00100E	19	IOEZ00214E	33
IOEZ00105I	19	IOEZ00229I	34
IOEZ00106I	19	IOEZ00230I	34
IOEZ00109E	19	IOEZ00231I	34
IOEZ00110E	20	IOEZ00232I	34
IOEZ00112E	20	IOEZ00233I	34
IOEZ00117I	20	IOEZ00234I	35
IOEZ00118I	20	IOEZ00235I	35
IOEZ00119E	20	IOEZ00236I	35
IOEZ00120E	21	IOEZ00237I	35
IOEZ00122I	21	IOEZ00238I	36
IOEZ00123I	21	IOEZ00239E	36
IOEZ00124E	21	IOEZ00240E	36
IOEZ00127I	22	IOEZ00241I	36
IOEZ00129I	22	IOEZ00242I	36
IOEZ00131E	22	IOEZ00243I	37
IOEZ00132E	22	IOEZ00244E	37
IOEZ00133E	22	IOEZ00245E	37
IOEZ00134E	23	IOEZ00246E	37
IOEZ00135E	23	IOEZ00247E	37
IOEZ00136E	23	IOEZ00248I	38
IOEZ00138E	23	IOEZ00249E	38
IOEZ00139E	23	IOEZ00250E	38
IOEZ00140I	24	IOEZ00251E	38
IOEZ00141E	24	IOEZ00252E	38
IOEZ00142E	24	IOEZ00253E	39
IOEZ00143E	24	IOEZ00300I	39
IOEZ00144E	25	IOEZ00301E	39
IOEZ00157E	25	IOEZ00303E	39
IOEZ00158E	25	IOEZ00304E	40
IOEZ00159E	25	IOEZ00308E	40
IOEZ00163I	25	IOEZ00309I	40
IOEZ00164I	26	IOEZ00312I	40
IOEZ00165E	26	IOEZ00314E	41
IOEZ00166I	26	IOEZ00315I	41
IOEZ00167I	26	IOEZ00317I	41
IOEZ00168E	27	IOEZ00318I	41
IOEZ00170E	27	IOEZ00320I	42
IOEZ00171I	27	IOEZ00321E	42
IOEZ00173I	27	IOEZ00322E	42
IOEZ00175E	28	IOEZ00323I	42
IOEZ00178I	28	IOEZ00324I	43
IOEZ00179I	28	IOEZ00325E	43
IOEZ00181E	28	IOEZ00326E	44
IOEZ00182E	29	IOEZ00327I	44
IOEZ00183E	29	IOEZ00328E	44
IOEZ00184E	29	IOEZ00329I	44
IOEZ00185E	29	IOEZ00331A	44
IOEZ00186E	30	IOEZ00334I	45
IOEZ00187I	30	IOEZ00336I	45
IOEZ00188A	30	IOEZ00337E	46
IOEZ00190E	30	IOEZ00338A	46
IOEZ00191E	31	IOEZ00340E	47
IOEZ00199E	31	IOEZ00341E	47
IOEZ00200E	31	IOEZ00342I	47
IOEZ00201E	31	IOEZ00350I	47
IOEZ00202E	32	IOEZ00351E	48
IOEZ00207E	32	IOEZ00353E	48
IOEZ00208E	32	IOEZ00354E	49

IOEZ00356E 49
IOEZ00357I 49
IOEZ00358E 50
IOEZ00359E 50
IOEZ00360I 50
IOEZ00361I 51
IOEZ00362E 51
IOEZ00363E 51
IOEZ00366E 51
IOEZ00368I 52
IOEZ00369I 52
IOEZ00370I 53
IOEZ00371E 53
IOEZ00373E 53
IOEZ00374I 53
IOEZ00380E 54
IOEZ00381E 54
IOEZ00382I 54
IOEZ00383E 55
IOEZ00385E 55
IOEZ00387I 56
IOEZ00388I 56
IOEZ00389I 56
IOEZ00390I 57
IOEZ00391I 57
IOEZ00392I 57
IOEZ00393I 57
IOEZ00394I 58
IOEZ00395I 58
IOEZ00396I 58
IOEZ00397I 59
IOEZ00398E 59
IOEZ00400I 59
IOEZ00401I 60
IOEZ00405I 60
IOEZ00410I 60
IOEZ00411I 61
IOEZ00412I 61
IOEZ00413I 61
IOEZ00416I 62
IOEZ00417E 62
IOEZ00418I 62
IOEZ00420E 63
IOEZ00421E 63
IOEZ00422E 64
IOEZ00424E 64
IOEZ00425E 65
IOEZ00426E 65
IOEZ00433E 65
IOEZ00434E 65
IOEZ00435E 66
IOEZ00436E 66
IOEZ00437I 67
IOEZ00438I 67
IOEZ00439I 67
IOEZ00440E 68
IOEZ00441E 68
IOEZ00442E 68
IOEZ00443E 68
IOEZ00444E 69
IOEZ00445E 69
IOEZ00447E 69
IOEZ00451E 70
IOEZ00453I 70

IOEZ00500I 70
IOEZ00501E 71
IOEZ00502E 71
IOEZ00503E 71
IOEZ00504E 72
IOEZ00505I 72
IOEZ00506E 73
IOEZ00507E 73
IOEZ00508E 73
IOEZ00509E 74
IOEZ00510E 74
IOEZ00511E 74
IOEZ00512E 74
IOEZ00513E 75
IOEZ00514E 75
IOEZ00515E 75
IOEZ00516E 76
IOEZ00518I 76
IOEZ00519E 76
IOEZ00520E 77
IOEZ00521I 77
IOEZ00522E 77
IOEZ00523I 78
IOEZ00524I 78
IOEZ00536E 78
IOEZ00537E 79
IOEZ00538I 79
IOEZ00539E 79
IOEZ00540I 79
IOEZ00545E 80
IOEZ00547I 80
IOEZ00548I 80
IOEZ00549E 81
IOEZ00550E 81
IOEZ00551E 81
IOEZ00553E 82
IOEZ00555E 82
IOEZ00557E 82
IOEZ00558E 82
IOEZ00559I 83
IOEZ00576E 83
IOEZ00579I 84
IOEZ00581E 84
IOEZ00587I 85
IOEZ00589E 85
IOEZ00590E 85
IOEZ00591I 86
IOEZ00592I 86
IOEZ00598E 86
IOEZ00599E 87
IOEZ00604I 87
IOEZ00605I 88
IOEZ00606E 89
IOEZ00607I 89
IOEZ00608I 89
IOEZ00609I 90
IOEZ00610I 90
IOEZ00611I 90
IOEZ00612I 91
IOEZ00613I 91
IOEZ00614A 91
IOEZ00615E 92
IOEZ00616E 92
IOEZ00617I 93

IOEZ00618E	<u>93</u>	IOEZ00715E	<u>118</u>
IOEZ00619E	<u>94</u>	IOEZ00718I	<u>118</u>
IOEZ00620E	<u>94</u>	IOEZ00719I	<u>118</u>
IOEZ00621E	<u>94</u>	IOEZ00720I	<u>119</u>
IOEZ00622E	<u>95</u>	IOEZ00721I	<u>119</u>
IOEZ00623E	<u>95</u>	IOEZ00722I	<u>119</u>
IOEZ00624E	<u>96</u>	IOEZ00723E	<u>120</u>
IOEZ00625E	<u>96</u>	IOEZ00724I	<u>120</u>
IOEZ00626E	<u>97</u>	IOEZ00725I	<u>120</u>
IOEZ00627E	<u>97</u>	IOEZ00726I	<u>121</u>
IOEZ00628E	<u>98</u>	IOEZ00727I	<u>121</u>
IOEZ00629E	<u>98</u>	IOEZ00728I	<u>122</u>
IOEZ00630E	<u>99</u>	IOEZ00729I	<u>122</u>
IOEZ00631E	<u>99</u>	IOEZ00730I	<u>122</u>
IOEZ00632E	<u>99</u>	IOEZ00731I	<u>122</u>
IOEZ00633E	<u>100</u>	IOEZ00733I	<u>123</u>
IOEZ00634E	<u>100</u>	IOEZ00734E	<u>123</u>
IOEZ00635E	<u>101</u>	IOEZ00735I	<u>123</u>
IOEZ00636E	<u>101</u>	IOEZ00736I	<u>124</u>
IOEZ00639I	<u>101</u>	IOEZ00739I	<u>124</u>
IOEZ00640E	<u>102</u>	IOEZ00740E	<u>125</u>
IOEZ00641I	<u>103</u>	IOEZ00741I	<u>125</u>
IOEZ00642E	<u>103</u>	IOEZ00742I	<u>126</u>
IOEZ00643I	<u>103</u>	IOEZ00743I	<u>126</u>
IOEZ00644I	<u>104</u>	IOEZ00744E	<u>126</u>
IOEZ00645A	<u>105</u>	IOEZ00745E	<u>127</u>
IOEZ00646I	<u>105</u>	IOEZ00746E	<u>127</u>
IOEZ00650I	<u>105</u>	IOEZ00747I	<u>128</u>
IOEZ00651E	<u>105</u>	IOEZ00750E	<u>128</u>
IOEZ00652E	<u>106</u>	IOEZ00751I	<u>129</u>
IOEZ00653E	<u>106</u>	IOEZ00752E	<u>129</u>
IOEZ00655E	<u>106</u>	IOEZ00753I	<u>129</u>
IOEZ00657E	<u>107</u>	IOEZ00754I	<u>130</u>
IOEZ00658E	<u>107</u>	IOEZ00755I	<u>130</u>
IOEZ00659E	<u>107</u>	IOEZ00756I	<u>130</u>
IOEZ00660I	<u>108</u>	IOEZ00757I	<u>131</u>
IOEZ00661I	<u>108</u>	IOEZ00758I	<u>131</u>
IOEZ00662I	<u>109</u>	IOEZ00759I	<u>131</u>
IOEZ00663I	<u>109</u>	IOEZ00760I	<u>132</u>
IOEZ00664E	<u>110</u>	IOEZ00761E	<u>132</u>
IOEZ00665E	<u>110</u>	IOEZ00762E	<u>133</u>
IOEZ00666E	<u>110</u>	IOEZ00763E	<u>133</u>
IOEZ00667I	<u>111</u>	IOEZ00764E	<u>133</u>
IOEZ00668I	<u>111</u>	IOEZ00765E	<u>134</u>
IOEZ00670I	<u>111</u>	IOEZ00766E	<u>134</u>
IOEZ00671E	<u>111</u>	IOEZ00767E	<u>134</u>
IOEZ00674E	<u>112</u>	IOEZ00768E	<u>135</u>
IOEZ00675E	<u>112</u>	IOEZ00769E	<u>135</u>
IOEZ00676E	<u>112</u>	IOEZ00770E	<u>136</u>
IOEZ00677E	<u>113</u>	IOEZ00771E	<u>136</u>
IOEZ00678E	<u>113</u>	IOEZ00773E	<u>136</u>
IOEZ00700E	<u>114</u>	IOEZ00774E	<u>137</u>
IOEZ00701E	<u>114</u>	IOEZ00775E	<u>137</u>
IOEZ00702E	<u>114</u>	IOEZ00776I	<u>138</u>
IOEZ00703E	<u>115</u>	IOEZ00777A	<u>138</u>
IOEZ00704E	<u>115</u>	IOEZ00778I	<u>139</u>
IOEZ00705I	<u>115</u>	IOEZ00780E	<u>139</u>
IOEZ00707I	<u>116</u>	IOEZ00781I	<u>140</u>
IOEZ00708E	<u>116</u>	IOEZ00782I	<u>140</u>
IOEZ00709I	<u>116</u>	IOEZ00783E	<u>141</u>
IOEZ00710E	<u>116</u>	IOEZ00784E	<u>141</u>
IOEZ00711I	<u>117</u>	IOEZ00785I	<u>142</u>
IOEZ00712E	<u>117</u>	IOEZ00786I	<u>142</u>
IOEZ00713E	<u>117</u>	IOEZ00787I	<u>142</u>

[IOEZ00788E](#) [143](#)
[IOEZ00789E](#) [143](#)
[IOEZ00790I](#) [144](#)
[IOEZ00791I](#) [144](#)
[IOEZ00792E](#) [144](#)
[IOEZ00793E](#) [145](#)
[IOEZ00794E](#) [145](#)
[IOEZ00795E](#) [146](#)
[IOEZ00797I](#) [146](#)
[IOEZ00798I](#) [147](#)
[IOEZ00799A](#) [147](#)
[IOEZ00800I](#) [148](#)
[IOEZ00801I](#) [148](#)
[IOEZ00802I](#) [149](#)
[IOEZ00803I](#) [149](#)
[IOEZ00804E](#) [150](#)
[IOEZ00805A](#) [150](#)
[IOEZ00806A](#) [150](#)
[IOEZ00807I](#) [151](#)
[IOEZ00808I](#) [151](#)
[IOEZ00809I](#) [152](#)
[IOEZ00810I](#) [152](#)
[IOEZ00811E](#) [153](#)
[IOEZ00812I](#) [153](#)
[IOEZ00813I](#) [154](#)
[IOEZ00814E](#) [154](#)
[IOEZ00815E](#) [154](#)
[IOEZ00822E](#) [155](#)
[IOEZ00823E](#) [155](#)
[IOEZ00824E](#) [156](#)
[IOEZ00825E](#) [156](#)
[IOEZ00826A](#) [157](#)
[IOEZ00827I](#) [157](#)
[IOEZ00828E](#) [157](#)
[IOEZ00829E](#) [158](#)
[IOEZ00830E](#) [158](#)
[IOEZ00831E](#) [159](#)
[IOEZ00832E](#) [160](#)
[IOEZ00833E](#) [160](#)
[IOEZ00834E](#) [160](#)
[IOEZ00835E](#) [161](#)
[IOEZ00836I](#) [162](#)
[IOEZ00837E](#) [162](#)
[IOEZ00838E](#) [162](#)
[IOEZ00839E](#) [163](#)
[IOEZ00840E](#) [163](#)
[IOEZ00841E](#) [163](#)
[IOEZ00842E](#) [164](#)
[IOEZ00843E](#) [164](#)
[IOEZ00844E](#) [164](#)
[IOEZ00845E](#) [165](#)
[IOEZ00846E](#) [165](#)
[IOEZ00847E](#) [165](#)
[IOEZ00848I](#) [166](#)
[IOEZ00849I](#) [166](#)
[IOEZ00850I](#) [166](#)
[IOEZ00851I](#) [167](#)
[IOEZ00852E](#) [167](#)
[IOEZ00853I](#) [167](#)
[IOEZ00854I](#) [168](#)
[IOEZ00856E](#) [168](#)
[IOEZ00857I](#) [169](#)
[IOEZ00858E](#) [169](#)
[IOEZ00859I](#) [169](#)

[IOEZ00860E](#) [170](#)
[IOEZ00861E](#) [170](#)
[IOEZ00862E](#) [171](#)
[IOEZ00866E](#) [171](#)
[IOEZ00867I](#) [172](#)
[IOEZ00870A](#) [172](#)
[IOEZ00872E](#) [172](#)
[IOEZ00873I](#) [173](#)
[IOEZ00877I](#) [173](#)
[IOEZ00879E](#) [173](#)
[IOEZ00880E](#) [174](#)
[IOEZ00881I](#) [174](#)
[IOEZ00882E](#) [175](#)
[IOEZ00883E](#) [175](#)
[IOEZ00884E](#) [175](#)
[IOEZ00885I](#) [176](#)
[IOEZ00886E](#) [176](#)
[IOEZ00887E](#) [176](#)
[IOEZ00888I](#) [177](#)
[IOEZ00889E](#) [177](#)
[IOEZ00890E](#) [177](#)
[IOEZ00891E](#) [178](#)
[IOEZ00892I](#) [178](#)
[IOEZ00895E](#) [179](#)
[IOEZ00896I](#) [179](#)
[IOEZ00897E](#) [180](#)
[IOEZ00898I](#) [180](#)
[IOEZ00899I](#) [181](#)
[IOEZ00900I](#) [181](#)
[IOEZ00901E](#) [181](#)
[IOEZ00902E](#) [182](#)
[IOEZ00903I](#) [182](#)
[IOEZ00904E](#) [183](#)
[IOEZ00905E](#) [183](#)
[IOEZ00906E](#) [184](#)
[IOEZ00907E](#) [184](#)
[IOEZ00908I](#) [185](#)
[IOEZ00942E](#) [185](#)
[IOEZ00943E](#) [186](#)
[IOEZ00947A](#) [186](#)
[IOEZ00948A](#) [187](#)
[IOEZ00949E](#) [187](#)
[IOEZ00950E](#) [188](#)
[IOEZ00951I](#) [188](#)
[IOEZ00952E](#) [189](#)
[IOEZ00953E](#) [189](#)
[IOEZ00957E](#) [190](#)
[IOEZ00958E](#) [190](#)
[IOEZ00959E](#) [191](#)
[IOEZ00960E](#) [191](#)
[IOEZ00961E](#) [192](#)
[IOEZ00962E](#) [192](#)
[IOEZ00963E](#) [192](#)
[IOEZ00964E](#) [193](#)
[IOEZ00965E](#) [193](#)
[IOEZ00966E](#) [194](#)
[IOEZ00981E](#) [194](#)
[IOEZ00982E](#) [195](#)
[IOEZ00983I](#) [195](#)
[IOEZ00984I](#) [196](#)
[IOEZ00985I](#) [196](#)
[IOEZ00986I](#) [197](#)
[IOEZ00987I](#) [197](#)
[IOEZ00988I](#) [197](#)

IOEZ00989I [198](#)
IOEZ00990E [198](#)
IOEZ00991E [199](#)
IOEZ00992E [199](#)
IOEZ00993E [199](#)
IOEZ00994I [200](#)
IOEZ00995E [200](#)
IOEZ00996E [200](#)
IOEZ00997E [201](#)
IOEZ00999I [201](#)
IOEZ01000I [202](#)
IOEZ01001I [202](#)
IOEZ01002E [202](#)
IOEZ01003I [203](#)
IOEZ01004E [203](#)
IOEZ01005I [204](#)
IOEZ01006I [204](#)
IOEZ01007I [205](#)
IOEZ01008I [205](#)
IOEZ01009I [206](#)
IOEZ01027E [206](#)
IOEZ01028E [207](#)
IOEZ01029E [207](#)
IOEZ01030E [208](#)
IOEZ01031E [208](#)
IOEZH0001I [209](#)
IOEZH0002I [209](#)
IOEZH0040I [210](#)
IOEZH0041I [210](#)
IOEZH0042I [211](#)
IOEZH0043I [212](#)
IOEZH0044E [212](#)
IOEZH0045E [213](#)
IOEZH0062I [214](#)
IOEZH0063I [214](#)
IOEZH0064I [215](#)
IOEZH0065E [215](#)
IOEZH0066E [216](#)
IOEZH0067E [217](#)
IOEZH0068I [217](#)
IOEZH0069I [218](#)
IOEZH0070I [218](#)
IOEZH0071E [219](#)
IOEZH0072E [220](#)
IOEZH0073E [220](#)
IOEZH0074E [221](#)
IOEZH0075I [222](#)

K

keyboard
 navigation [503](#)
 PF keys [503](#)
 shortcut keys [503](#)

M

messages
 Distributed File Service [xi](#), [xiii](#), [xxi](#)

N

navigation

navigation (*continued*)
 keyboard [503](#)

R

reason codes [387](#)

S

sending to IBM
 reader comments [vii](#)
severity levels [2](#)
shortcut keys [503](#)
slip trap
 diagnosis data
 setting [2](#)
 setting [2](#)
SMB
 messages, new [xv](#)

T

trademarks [511](#)

U

user interface
 ISPF [503](#)
 TSO/E [503](#)

Z

z/OS File System (zFS)
 messages changes in V2R4 [xi](#)
zFS
 messages, changed [xi](#), [xv](#), [xxii](#)
 messages, new [xi](#), [xiii](#), [xxi](#)
 messages, no longer issued [xv](#), [xxiii](#)
 reason codes, new [xi](#), [xv](#), [xxii](#)
 reason codes, updated [xii](#), [xix](#), [xxiii](#)
zFS messages [5](#)



Product Number: 5650-ZOS

SC23-6885-40

