

z/OS
2.5

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 5 of z/OS® (5650-ZOS) and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this document

Detailed explanations and recovery actions are provided for the messages issued by z/OS File System (zFS). zFS is one of the file systems that is used by 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.

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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.

Note: IBM z/OS policy for the integration of service information into the z/OS product documentation library is documented on the z/OS Internet Library under [IBM z/OS Product Documentation Update Policy \(www-01.ibm.com/servers/resourcelink/svc00100.nsf/pages/ibm-zos-doc-update-policy?OpenDocument\)](http://www-01.ibm.com/servers/resourcelink/svc00100.nsf/pages/ibm-zos-doc-update-policy?OpenDocument).

Summary of message changes for z/OS File System in z/OS V2R5

The following messages and reason codes are new, changed, or no longer issued for z/OS File System (zFS) in z/OS V2R5.

New messages for zFS

The following messages are new for zFS.

None.

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.

IOEZ00522E

IOEZ00337E (APAR OA59379, which also applies to V2R4 and V2R3)

IOEZ00338A (APAR OA59379, which also applies to V2R4 and V2R3)

IOEZ00617I (APAR OA59379, which also applies to V2R4 and V2R3)

IOEZ00777A (APAR OA59379, which also applies to V2R4 and V2R3)

IOEZ00784E (APAR OA59379, which also applies to V2R4 and V2R3)

IOEZ00947A (APAR OA59379, which also applies to V2R4 and V2R3)

IOEZ00948A (APAR OA59379, which also applies to V2R4 and V2R3)

IOEZ00639I

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.

6619 (APAR OA63845, which applies to V2R4 and V2R5)

6123 (APAR OA63845, which applies to V2R4 and V2R5)

6124 (APAR OA63845, which applies to V2R4 and V2R5)

6CA6 (APAR OA60828)

Changed reason codes for zFS

The following reason codes are changed for zFS.

None.

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
6D0C

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

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 IOEZnnnnnt are issued by zFS, while messages prefixed with IOEZHnnnnnt 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,xxxxxxx), 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 ioedebg record *BadRecord*.

System action:

The program ends.

Severity:

svc_c_sev_fatal

Administrator Response:

Correct the error in the ioedebg 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	<i>ProgName: Parameter <i>Parameter</i> is not valid for modify command <i>CommandName</i>.</i>
Explanation: The specified parameter <i>Parameter</i> is not valid for the <i>CommandName</i> command.	
System action: The program continues.	
Severity: svc_c_sev_error	
Administrator Response: Additional information about the syntax of the <i>CommandName</i> command is found in the z/OS File System Administration .	
IOEZ00020I	<i>progrname: prodname featurename Version ver.rel.mod Service Level slv. Created on date.</i>
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	<i>ProgName: modify command is not valid - Parm.</i>
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 <i>Parm</i> command is found in the z/OS File System Administration .	
IOEZ00024E	<i>ProgName: MODIFY command - Parm failed.</i>
Explanation: The MODIFY command <i>Parm</i> failed.	
System action: The program continues.	
Severity: svc_c_sev_error	
Administrator Response: Additional information about the syntax of the <i>Parm</i> 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	<i>ProgName: MODIFY command - Parm completed successfully.</i>
Explanation: The MODIFY command <i>Parm</i> 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 \(errnos\)](#) 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 <i>ErrorCode</i> reason code <i>ReasonCode</i> received unquiescing aggregate <i>Name</i>.
<p>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 <i>z/OS UNIX System Services Messages and Codes</i> for a description of the error code. See Appendix A, “Reason codes,” on page 387 for a description of the reason code.</p> <p>System action: The program ends.</p> <p>Severity: svc_c_sev_error</p> <p>Administrator Response: If there are no other commands or operations running against the aggregate, and the problem continues, contact your service representative.</p>	
IOEZ00170E	Open of file system <i>FilesystemName</i> failed with rc <i>ReturnCode</i>.
<p>Explanation: In order to quiesce file system <i>FilesystemName</i>, it needs to be opened. This operation failed with a return code of <i>ReturnCode</i>. 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.</p> <p>System action: The program continues.</p> <p>Severity: svc_c_sev_error</p> <p>Administrator Response Use the return code to determine why the open failed. Then, correct the problem and reissue the quiesce command.</p>	
IOEZ00171I	Close of file system <i>FilesystemName</i> failed with rc <i>ReturnCode</i>.
<p>Explanation: In order to unquiesce file system <i>FilesystemName</i>, it needs to be closed. This operation failed with a return code of <i>ReturnCode</i>. 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.</p> <p>System action: The program continues.</p> <p>Severity: svc_c_sev_notice</p> <p>Administrator Response: Use the return code to determine why the close failed, and correct any problem that may render the file system unusable.</p>	
IOEZ00173I	Aggregate <i>Name</i> successfully grown.
<p>Explanation: An aggregate was successfully increased in size by the zfsadm command.</p> <p>System action: The program continues.</p> <p>Severity: svc_c_sev_notice</p> <p>Administrator Response:</p>	

None.

IOEZ00175E	Error growing aggregate <i>Name</i>, error code=<i>ErrorCode</i> reason code=<i>ReasonCode</i>.
-------------------	--

Explanation:

An aggregate could not be increased in size due to an unexpected error, or possibly the aggregate was busy with another command or operation. You may have specified a new size smaller than the current size, a new size of 0 with a zero secondary allocation on the data set, or there may not be sufficient space on the volumes. 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 ends.

Severity:

svc_c_sev_error

Administrator Response:

Correct the size specification and ensure that there is space on the volume. If there are no other commands or operations running against the aggregate, and the problem continues, contact your service representative.

IOEZ00178I	The configuration data set <i>Filename</i> could not be opened..
-------------------	---

Explanation

Since zFS could not open the configuration data set, it will continue without one and will use defaults for all configuration options.

In the message text:

Filename

The name of the configuration data set.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

Look for related error messages in the system log to determine why the open failed. Ensure that the zFS configuration data set is accessible to the program and retry the operation.

IOEZ00179I	There is no configuration dataset. Default configuration values will be used.
-------------------	--

Explanation:

This message notifies the user that default configuration values will be used.

System action:

The program continues.

Severity:

svc_c_sev_notice

Administrator Response:

None.

IOEZ00181E	Could not open 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.

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 \(errno\)](#) 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:

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 <i>FileSystem</i>, error code <i>ErrorCode</i> reason code <i>ReasonCode</i>.
-------------------	---

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 <i>Name</i> 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 <i>ErrorCode</i> occurred while closing dataset '<i>dataset_name</i>'.
-------------------	---

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 <i>Name</i> 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:

System action:
The program ends.

Administrator Response:
Try to resolve the error and reissue the command.

Explanation:
zFS was unable to allocate working storage for a file system list.

Severity:
svc_c_sev_error

IOEZ00212E	Error <i>ErrorCode</i> (reason <i>ReasonCode</i>) occurred while attempting to get a list of file systems for the aggregate <i>Aggrname</i> .
------------	--

System action:
The program ends.

Administrator Response:
Try to resolve the error and reissue the command.

Explanation:
An error occurred while getting status for the specified 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.

Severity:
svc_c_sev_error

IOEZ00214E	The file system name <i>Filesystem</i> is too long. The maximum length for a file system name is <i>length</i> .
------------	--

System action:

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	<i>UnkownAmbig operation 'SubCommand'; type 'ProgramName help' for list.</i>
-------------------	---

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	<i>UnkownAmbig operation 'SubCommand'; type 'ProgramName help' for list.</i>
-------------------	---

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	<i>'ProgramName -help'.</i>
-------------------	------------------------------------

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	<i>'ProgramName SubCommand -help'.</i>
-------------------	---

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 <i>filesystem</i> 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 <i>Number</i> file systems with the name <i>Filesystem</i> 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 <i>ConfigOption</i> is <i>ConfigValue</i>.
-------------------	--

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 <i>filesystem</i> 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 (ADDRDSSU 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, or register 15 at time of abend.

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, or register 15 at time of abend.

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 IXCMGSGO 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 <i>Config_vnode_size</i> is invalid. Using value <i>vnode_size</i>.
-------------------	---

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 <i>ErrorCode</i> reason <i>ReasonCode</i> received while attempting to move aggregate <i>AggrName</i> to system <i>System</i>.
-------------------	---

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 <i>AggrName</i> is now owned by system <i>System</i>.
-------------------	--

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 reenabling 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. Also ensure that the file system name specified on the MOUNT statement in the BPXPRMxx parmlib member is in uppercase, not mixed-case or lowercase.

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 is 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

***progrname: 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:

progrname

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`, `updatefilesys`, 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 DFSMSdftp 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 DFSMSdftp 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 DFSMSShsm Diagnosis](#) or [z/OS DFSMSShsm 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 DFSMSShsm Storage Administration](#) and [z/OS DFSMSShsm 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 [Requesting that 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.**

Explanation

zFS is unable to perform name space validation because it cannot communicate with the specified system. zFS will retry communications 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:

SysName

The name of the system.

Seconds

The number of seconds.

System action:

The program continues.

Severity:

svc_c_sev_warning

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](#).

IOEZ00612I

zFS Name Space Validation is running due to a detected internal error.

Explanation:

zFS has detected an internal error and is performing name space validation and correction. zFS will correct the problem for any aggregate that has an inconsistent state across the sysplex by internally re-mounting the aggregate on all systems or restarting zFS on one or more sysplex members, or both.

System action:

The program continues.

Severity:

svc_c_sev_warning

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](#).

IOEZ00613I

zFS Name Space Validation is running due to a detected XCF communication failure or message timeout.

Explanation:

zFS has detected either an XCF communication failure or had a name space related message time out. zFS will correct the problem for any aggregate that has an inconsistent state across the sysplex by internally remounting the aggregate.

System action:

The program continues.

Severity:

svc_c_sev_warning

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](#).

IOEZ00614A

zFS has detected an incompatible interface level *IntLevel* for member *Sysname*.

Explanation

zFS has detected that there are other members in the sysplex that have incompatible release or service levels with the current system that is attempting to initialize. Initialization ends.

In the message text:

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 V2R5 level (long-running command support)

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 <i>Aggrname</i> on system <i>SY1</i> 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 <i>Aggrname</i> is unowned and growing on system <i>System</i>.
-------------------	--

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

progrname: 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 V2R5 level (long-running command support)

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.

Progrname

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: *Progrname: 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.

Progrname

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, updatefilesys, 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 IXCMSTGI, IXCMSTGO, 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*.
- *enqueueing 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 *filesys_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 <i>ResName</i>. Rc and rsn are <i>rc</i> and <i>rsn</i>. 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 <i>Sysname1</i> does not support the following feature(s) used by this system (<i>Sysname2</i>) <i>feature_list</i>.
-------------------	--

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 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=filesys*, 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 <i>Sysname1</i> should be terminated... it does not support the following feature(s) used by this system (<i>Sysname2</i>) <i>feature_list</i>.
-------------------	---

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 <i>Sysname1</i> uses feature(s) not supported by the initializing system (<i>Sysname2</i>).
-------------------	---

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 <i>Aggregate_name</i> 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=filesystems.

In the message text:

SysName

Initializing system that is not running sysplex=filesystem.

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=filesystems. zFS does not allow a z/OS R13 or higher member to join a sysplex where there are members that are not running sysplex=filesystems. All z/OS R13 or later members run sysplex=filesystems. z/OS R12 members must specify sysplex=filesystems.

In the message text:

SysName

Active system that is not running sysplex=filesystem.

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 <i>StartTime</i> Current status: <i>Status</i> Internal restart count <i>RestartCount</i> <i>RestartTime</i>.
-------------------	--

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 <i>d_pages</i> directory pages, <i>anodes</i> anodes, <i>i_blocks</i> indirect blocks and <i>a_pages</i> 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 <i>FileSys</i> failed, rc=<i>ReturnCode</i> rsn=<i>ReasonCode</i>.
-------------------	--

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 <i>FileSys</i> 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 <i>max_errors</i> 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 <i>anode</i> anode table pages, <i>p_free</i> partially free pages, <i>zlc</i> zlc pages, <i>indirect</i> 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 <i>number</i> 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 = <i>length</i> .
------------	---

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 <i>string</i> .
------------	---

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 <i>aggregate_name</i> failed with code=<i>return_code</i>. 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=<i>return_code</i>.
-------------------	---

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 <i>a_code</i> occurred, reason <i>r_code</i> 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, or register 15 at time of abend.

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 <i>Rreg_num</i>: <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, or register 15 at time of abend.

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 <i>aggregate_name</i> was not unmounted cleanly. Last update time stamp=<i>time_stamp</i> sysname=<i>system_name</i>
-------------------	---

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 <i>aggregate_name</i> 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 <i>aggregate_name</i> failed with code=<i>return_code</i>. 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 <i>aggregate_name</i> failed with code=<i>return_code</i>. 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=<i>ReturnCode</i> reason=<i>ReasonCode</i> received while attempting to convert directory <i>name</i> 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 <i>name</i>, error=<i>returnCode</i> reason=<i>reasonCode</i>.
-------------------	---

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 inode*number*, 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.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00802I	Directory conversion completed, directory size now <i>total</i> pages.
-------------------	---

Explanation

During the conversion of a zFS aggregate, the stand-alone conversion program finished re-formatting the directory and shows the new size of the directory in 8K pages.

In the message text:

total

The size of the directory in 8K pages.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00803I	<i>dirs</i> directories were found, <i>dirs4</i> converted, <i>v4Pages</i> directory pages converted to <i>v5Pages</i> directory pages.
-------------------	--

Explanation

During the conversion of a zFS aggregate, the stand-alone conversion program has found the indicated number of directories thus far in the anode table scan. *dirs4* indicates the number of directories that required conversion. *v4Pages* is the total number of pages that these directories occupied and *v5Pages* is the number of pages the newly converted directories occupy.

In the message text:

dirs

The number of directories found so far during the scan.

dirs4

The number of directories requiring conversion.

v4Pages

The number of 8K pages occupied by the directories in their original format.

v5Pages

The number of 8K pages now occupied by the converted directories.

System action

The program continues.

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 <i>return_code</i> reason <i>reason_code</i> received while attempting to change aggregate <i>aggrname</i> to version <i>version</i>.
-------------------	--

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 <i>aggrname</i> to version <i>1.version</i>.
-------------------	--

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 <i>error_code</i> reason <i>reason_code</i> received while attempting to change aggregate <i>aggrname</i> to version <i>1.version</i>.
-------------------	---

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 <i>queue_name</i>, held by <i>system_name</i>, 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 <i>DatasetName</i>. rc=<i>Retcode</i> err=<i>Reterr</i> info=<i>Retinfo</i> SMSreason=<i>Retrsn</i> func=<i>func</i>
-------------------	---

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 <i>path_name</i>. error=<i>error_code</i> reason=<i>reason_code</i>.
-------------------	---

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 <i>Filesystem</i> failed because the dataset does not refer to the same dataset as the owner <i>Owner</i>. <i>LocalSystem</i> has the file system on VOLSER <i>LocalVolser</i> whereas the owner has it on <i>OwnerVolser</i>.
-------------------	---

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.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00845E	Reset option cannot be used with the select, exceptions, or sort options.
-------------------	--

Explanation

The FSINFO command does not support the reset option if one of the select, exceptions, or sort options was also specified.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error and try again.

IOEZ00846E	Invalid criteria string <i>string</i> for FSINFO select option.
-------------------	--

Explanation

The select option of the FSINFO command contains an invalid criteria string.

In the message text:

string

The criteria string.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the criteria string and try again.

IOEZ00847E	Data set <i>aggregate_name</i> is not formatted as a zFS aggregate.
-------------------	--

Explanation

The displayed VSAM linear data set is not formatted as a zFS aggregate or its size is smaller than the minimum size of a zFS aggregate.

In the message text:

aggrname

The name of the aggregate.

System action

The salvage operation ends.

Severity

svc_c_sev_error

Administrator Response

Ensure that the data set is a VSAM linear data set with share options (3,3) that is correctly formatted as a zFS aggregate. The size of the data set must be larger than the minimum zFS aggregate size.

IOEZ00848I	Could not get completed file system information error=<i>error_code</i> reason=<i>reason_code</i>.
-------------------	---

Explanation

Getting file system information is not completed due to the displayed return code and reason code. FSINFO displays as much information as it can.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00849I	FSINFO command done.
-------------------	-----------------------------

Explanation

The FSINFO command completed processing.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ00850I	File System Status:.
-------------------	-----------------------------

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 - <i>parm_name</i>.
-------------------	---

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 <i>aggrname</i> was disabled <i>aggr_disabled</i> times and re-enabled <i>aggr_reenabled</i> 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 <i>aggrname</i> 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 <i>system_name</i>. 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 <i>aggrname</i>, error code=<i>error_code</i> reason code=<i>reason_code</i>.
-------------------	--

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 <i>parameter_name</i> 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	<i>program_name</i>: could not open trace output file <i>file_name</i>.
-------------------	--

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.PFSCTL 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 <i>aggregate_name</i> released <i>tracks</i> tracks, moved <i>blocks</i> blocks, and moved <i>fragments</i> 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 <i>errorCode</i> reason <i>reasonCode</i> received while releasing space from aggregate <i>aggregate_name</i>. <i>blocks</i> blocks and <i>fragments</i> 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 <i>aggregate_name</i> shrink halted with error code=<i>error_code</i>. Moved <i>blocks</i> blocks and <i>fragments</i> 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 <i>file_name</i> 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, or register 15 at time of abend.

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 <i>a_code</i> occurred, reason <i>r_code</i> 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, or register 15 at time of abend.

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 <i>filesystem_name</i> failed because the dataset does not refer to the same dataset as the owner <i>owner_name</i>. The client extent <i>volser</i>, <i>low_CI</i>, <i>hi_CI</i> 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 <i>keylabel_name</i> to aggregate <i>aggregate_name</i> 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 <i>keylabel_name</i> for aggregate <i>aggregate_name</i>.
-------------------	--

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 <i>error_code</i> reason code <i>reason_code</i> while verifying key label <i>keylabel_name</i> for aggregate <i>aggregate_name</i>.
-------------------	--

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 <i>return_code</i> reason code <i>reason_code</i>.
-------------------	---

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 <i>keylabel</i> 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.

Severity

svc_c_sev_error

Administrator Response

Remove the -keylabel parameter and try the command again.

IOEZ00966E	The shrinking of aggregate <i>aggregate_name</i> is not allowed by <i>reason_failure</i>.
-------------------	--

Explanation

The shrink of an SMS-managed aggregate is not allowed due to the specified reason.

In the message text:

aggregate_name

The aggregate name.

reason_failure

The reason for the failure.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response:

If the reason the shrink failed was because of a management class attribute, you should ensure you are using the correct management class for the aggregate. See [z/OS DFSMSdss Storage Administration](#) for information related to using management classes. For other reasons, contact your service representative.

IOEZ00981E	Dynamic allocation abend occurred for data set <i>dataset_name</i>. Abend code=<i>Abend_Code</i> func=<i>func</i>.
-------------------	---

Explanation

Dynamic allocation abended while processing the specified data set. The abend code returned by the system is as shown. *func* describes the dynamic allocation function that was attempted.

In the message text:

Abend_Code

The z/OS abend code received.

dataset_name

The name of the data set.

func

The dynamic allocation function that was attempted.

System action

The program continues.

Severity

svc_c_sev_error

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 <i>offset</i> of inode <i>inode_number</i> in file system <i>file_system</i> 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=<i>inode_number</i> (size=<i>inode_size</i>) in aggregate <i>aggregate_name</i> 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 <i>service_name</i> 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 <i>aggregate_name</i> 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 <i>aggregate_name</i> 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 <i>aggregate_name</i> 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 <i>aggregate_name</i> 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.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Try the operation again when zFS is not being stopped or restarted.

IOEZ00994I	The EDCFIXED option of the user cache size IOEFSPRM configuration option is ignored.
-------------------	---

Explanation

Since zEDC is not initialized, the EDCFIXED option cannot be processed. The user cache pages are not fixed for zEDC performance.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

Once zEDC is initialized, issue the **zfsadm config** -user_cache_size command with the EDCFIXED option.

IOEZ00995E	Mount for aggregate <i>aggregate_name</i> failed because zEDC is not initialized.
-------------------	--

Explanation

zEDC is not initialized. zFS cannot mount an aggregate that is compressed if zEDC 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 zEDC is initialized.

IOEZ00996E	The compression of aggregate <i>aggregate_name</i> failed because zEDC is not initialized.
-------------------	---

Explanation

Data cannot be compressed when zEDC is not initialized.

In the message text:

aggregate_name
The aggregate name.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Try the operation again after zEDC is initialized.

IOEZ00997E	Aggregate takeover for aggregate <i>aggregate_name</i> failed because zEDC is not initialized.
-------------------	---

Explanation

This system cannot assume ownership because the aggregate contains compressed data and zEDC 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 zEDC is initialized.

IOEZ00999I	zFS is waiting for ICSF initialization.
-------------------	--

Explanation

zFS is waiting for ICSF to initialize because the IOEFSPRM configuration option `initialize_for_encryption` is ON. zFS will continue initialization once it receives notification that ICSF is available.

System action

The program continues.

Severity

svc_c_sev_notice

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 <i>file_system</i> 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 <i>file_system</i> CI=<i>control_interval_number</i> (<i>data_type</i> inode=<i>inode_number</i>) 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 <i>file_index</i>). The compression group information: <i>logpage logical_page</i> total pages <i>pages_before_compression</i> compressed pages <i>pages_after_compression</i>.
-------------------	--

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 <i>physical_page</i>.
-------------------	--

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.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ01007I	Successfully repaired corrupted data in ACL with index <i>index</i>.
-------------------	---

Explanation

The salvager found corrupted encryption data in the specified ACL object and repaired the corrupted data. This message is intended for IBM service.

In the message text:

index

The ACL index.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEZ01008I	File with inode=<i>inode_number</i> (size=<i>inode_size</i>) in aggregate <i>aggregate_name</i> is encountering delays during shrink processing.
-------------------	---

Explanation

zFS is in the process of shrinking the specified aggregate and has encountered the file or directory with the specified inode and the specified size (in K). Because the shrink process is being delayed, the process might take a long time to complete. Applications that are accessing the file or directory during the shrink process is a possible cause of this delay.

In the message text:

aggregate_name

The name of the file system.

inode_number

The inode number of the affected file.

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 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.

Chapter 3. IOEZHnnnnnt: zFS Health Checker messages

This section contains the messages that result from zFS checks from IBM Health Checker for z/OS. See [IBM Health Checker for z/OS User's Guide](#) for more information about the IBM health checks.

IOEZH0001I	A zFS PFCTL failed. Command <i>command</i>, subcommand <i>subcommand</i> failed with errno=<i>errno</i>, errnojr=<i>errnojr</i>
-------------------	--

Explanation:

The check could not execute.

System action:

The system continues processing.

Operator response:

Report this problem to the system programmer.

System programmer response:

Search problem reporting data bases for a fix for the problem. If a fix does not exist, call the IBM Support Center.

Problem determination:

N/A

Module:

IOEZHCK1

Source:

z/OS File System

Reference documentation:

[z/OS File System Administration](#)

Automation:

N/A

Routing code:

N/A

Descriptor code:

N/A

IOEZH0002I	Health check received an unknown entry code of <i>entry code</i> from IBM Health Checker for z/OS.
-------------------	---

Explanation:

This is an internal error.

System action:

The system continues processing.

Operator response:

Report this problem to the system programmer.

System programmer response:

Search problem reporting data bases for a fix for the problem. If a fix does not exist, call the IBM Support Center.

Problem determination:

N/A

Module:

IOEZHCK1

Source:

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:

IOEZCHK1

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:

IOEZHC1

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

IOEZHC0066E

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:

IOEZHC1

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:

IOEZCHK1

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 documentation

See 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:

IOEZHC1

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:

IOEZHC1

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:

IOEZCHK1

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

IOEZHO074E

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:

IOEZCHK1

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 *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.
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 *functionName*.

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	<i>ProgName: Parameter Parameter is not valid for modify command CommandName.</i>
-------------------	--

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	<i>ProgName: SEND command is not valid - Parm.</i>
-------------------	---

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	<i>ProgName: SEND command - Parm failed.</i>
-------------------	---

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 ioedebg record *BadRecord*.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Correct the error in the ioedebg 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	<i>ProgName:</i> 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	<i>ProgName:</i> 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	<i>ProgName:</i> 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 <i>daemon_name</i> is ready to process <i>protocol_name</i> 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	<i>ProgName</i>: 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 <i>ReturnCode</i>.
-------------------	--

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***progrname: 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***progrname: 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 '<i>attrfile_line</i>' is not valid in file <i>attrfile</i>.
-------------------	---

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 envvar 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 '<i>suffix</i>' in line number <i>line_number</i> is not valid in file <i>attrfile</i>.
-------------------	--

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 envvar 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 '<i>suffix</i>' conflicts with the previous use in file <i>attrfile</i>.
-------------------	---

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 <i>line_num</i> in file <i>attrfile</i> 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 <i>errno</i> occurred. The reason code is <i>reason</i>.
-------------------	--

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 <i>ReturnCode</i> and reason <i>ReasonCode</i>.
-------------------	--

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 <i>minor_dev</i> 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 <i>minor_dev</i> code page name <i>code_page_name</i> 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 <code>_IOE_HFS_FILETAG</code> 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 envvars <code>_IOE_WIRE_CODEPAGE</code> and <code>_IOE_HFS_FILETAG</code> are incompatible.
-------------------	--

Explanation

The Distributed File Service kernel (DFSKERN) envvar file (/opt/dfslocal/home/dfskern/envvar) contains a value for _IOE_WIRE_CODEPAGE that is incompatible with the value for _IOE_HFS_FILETAG. When Native ASCII support is enabled (IOE_HFS_FILETAG=QUERY or SET or _IOE_LFS_FILETAG=QUERY or SET), _IOE_WIRE_CODEPAGE must be ISO8859-1 or unspecified. Or, if _IOE_WIRE_CODEPAGE specified an ASCII codepage other than ISO8859-1, Native ASCII 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-ISO-8859-1 client code page, but not both.

Severity

svc_c_sev_error

Administrator Response

Either set _IOE_WIRE_CODEPAGE=ISO8859-1 or leave it unspecified, or disable the 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).

IOEN00300A	Error "<i>error_message</i>" opening devtab file.
-------------------	--

Explanation

The device driver cannot open the devtab file. A strerror() message is displayed.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Make sure the devtab file has been created and is permitted. Then ensure the application is authorized and is running as UID 0 (root).

IOEN00301A	Incorrect device specification "<i>bad_line</i>" encountered in devtab file.
-------------------	---

Explanation

An incorrect definition was encountered in the devtab file while attaching an LFS file system.

System action

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the devtab entry displayed and insure the devtab file contains only correct device definitions.

IOEN00302A	Missing device specification for minor device <i>minor_number</i>.
-------------------	---

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 is the dfstab file is specified correctly.

IOEN00303A	While opening minor device <i>minor_number</i>, could not open dataset <i>dataset_name</i>.
-------------------	--

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 '<i>dataset_name</i>'.
-------------------	---

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 '<i>dataset_name</i>' 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 <i>filesystem</i> error <i>error</i> (<i>errorstring</i>) reason code <i>reason</i>.
-------------------	---

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 <i>fileset</i> aggregate id <i>aggrId</i> fileset id <<i>fIdhigh</i>,<i>fIdlow</i>>.
-------------------	---

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 <i>fileset</i> aggregate id <i>aggrId</i> fileset id <i><fIdhigh,,fIdlow></i>
-------------------	--

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 <i>fileset</i> aggregate id <i>aggrId</i> fileset id <i><fIdhigh,,fIdlow></i>.
-------------------	---

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 <i>error</i> reason <i>reason</i> exporting fileset <i>fileset</i> aggregate id <i>aggrId</i> fileset id <i><fIdhigh,,fIdlow></i>
-------------------	---

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 <i>error</i> reason <i>reason</i> unexporting fileset <i>fileset</i> aggregate id <i>aggrId</i> fileset id <i><fIdhigh,,fIdlow></i>.
-------------------	--

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 <i>lineno</i> after character <i>character</i> 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 <i>error reason reason</i> occurred when mounting filesystem <i>filesysname</i>.
-------------------	--

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 <i>filesysname</i> mounted on path <i>mountpath</i>.
-------------------	---

Explanation

A DFS server was requested to dynamically MOUNT filesystems into the z/OS UNIX file tree at startup. The filesystem indicated by *filesysname* was successfully mounted.

System action

The program continues.

Severity

svc_c_sev_notice

IOEN00421I DFSKERN: filesystem *filesysname* 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 <i>Userid</i> 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 envvar 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 <i>errorCode</i> acquiring ownership of filesystem <i>filesystem</i> reason <i>reasonCode</i>.
-------------------	--

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	<i>ThisProgram: No memory available for new trace table. Current table is retained.</i>
-------------------	--

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	<i>ThisProgram: No memory available for internal trace table. Server is shutting down.</i>
-------------------	---

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	<i>ThisProgram: Trace table header thead table size tsize table start tstart table end tend.</i>
-------------------	---

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

IOEP00002A

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: <i>return_code</i>.
-------------------	--

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. <i>error_text</i>
-------------------	---

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 <i>daemon_name</i> 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 <i>daemon_name</i> status is <i>status_string</i> and process ID is <i>daemon_pid</i>.
-------------------	--

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 <i>daemon_name</i>.
-------------------	---

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. <i>parameter_name</i>: <i>value</i>.
-------------------	--

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](#).

Severity

svc_c_sev_error

IOEP01109A **MODIFY command contains no verb.**

Explanation

The required verb parameter is not specified on the MODIFY command. *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

IOEP01110A **DFS kernel does not recognize verb *verb_name*.**

Explanation

The verb 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

IOEP01111A **Daemon name parameter required for *command_name* command.**

Explanation

The MODIFY command does not specify the required daemon name 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

IOEP01113A	Daemon name <i>daemon_name</i> specified for <i>command_name</i> 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 <i>command_name</i> 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 <i>daemon_status</i>, specified for <i>command_name</i> 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 <i>daemon</i> cannot be started because it has status of <i>daemon_status</i>.
-------------------	--

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 <i>daemon</i> cannot be stopped because it has status of <i>daemon_status</i>.
-------------------	--

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 <i>parameter_value</i> in DFS daemon configuration file.
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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: <i>return_code-reason_code</i>.
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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. <i>error_text</i>.
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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 <i>file_name</i>.
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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. <i>error_text</i>.
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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. <i>error_text</i>
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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 <i>service_name</i> service.
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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: <i>return_code</i>.
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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>.
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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>.
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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: <i>return_code</i>.
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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: <i>return_code</i>.
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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: <i>return_code</i>.
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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 <i>component</i>.
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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.
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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.
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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.
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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/dcelocal/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.
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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 <i>request_name</i> request from TSO user <i>user_ID</i>.
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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. <i>error_text</i>.
-------------------	--

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. <i>error_text</i>.
-------------------	--

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. <i>error_text</i>.
-------------------	--

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, <i>token_name</i>. System return code: <i>return_code</i>.
-------------------	---

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: <i>return_code</i>, system reason code <i>reason_code</i>.
-------------------	---

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

IOEP01702A	Cannot initialize MVS pause service. System return code: <i>return_code</i>, system reason code: <i>reason_code</i>.
-------------------	---

Explanation

The DFS control task cannot identify the event control blocks used by DFS when starting a daemon in a separate address space. The values *return_code* and *reason_code* are returned from the **BPX1MPI()** 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

IOEP01703A	Daemon <i>daemon_name</i> cannot be started in a separate address space.
-------------------	---

Explanation

The daemon specified in the message is on the list of daemons to be started by DFS in a separate address space. However, a previous problem with event control block initialization prevents DFS from doing this.

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

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. To force all daemons to start within the DFS address space, specify an empty list for the value of the **_IOE_DAEMONS_IN_AS** environment variable in the `/opt/dfslocal/home/dfscntl/envvar` file.

Severity

svc_c_sev_error

IOEP01704A	Start parameters for daemon <i>daemon_name</i> 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, <i>token_name</i>. System return code: <i>return_code</i>.
-------------------	---

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 <i>daemon_name</i> 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 <i>daemon_name</i> 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.

Operator response

Start all daemons, including those in separate address spaces, through the DFS kernel, using the **modify dfs,start** command.

System programmer response

If the problem occurs while using the **modify** command to start the daemon, turn debugging on for the daemon and start the daemon again. Use the debug output to determine the cause of the failure. If the problem continues, contact the service representative.

Severity

svc_c_sev_error

IOEP01709A	The userid for this job does not have root authority,uid(0), nor is it permitted to the BPX.SUPERUSER facilities class.
-------------------	--

Explanation

Must have a uid of 0, or be permitted to BPX.SUPERUSER.

System action

This job terminates.

Operator response

Authorize the user ID for this job to root(uid(0)), or permit it to the BPX.SUPERUSER RACF facilities class.

Severity

svc_c_sev_error

IOEP01710A	Cannot update status. Reason code: <i>reason_code</i>.
-------------------	---

Explanation

The DFS daemon cannot inform the DFS kernel of a status change. In most cases, the reasons for the failure are:

- There is a local socket error in the z/OS UNIX kernel.
- There is a memory shortage in the DFS kernel.
- There is an internal error in the DFS kernel.

System action

The program continues.

Operator response

Collect the error information and notify the system programmer.

System programmer response

Verify that the value of the envar DCE_START_SOCKET_NAME in each process envar file is the same. Use the following information associated with the following reason codes to help correct the error:

513
requester not authorized.

- 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 <i>filesystem_name</i> 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 <i>filesystem_name</i> 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 <i>filesystem_name</i> because a zFS PFCTL call failed. Command <i>command</i>, subcommand <i>subcommand</i>, failed with RC=<i>rc</i> and reason=<i>reason</i>.
-------------------	--

Explanation

The Distributed File Service kernel calls the zFS PFCTL 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: <i>ProgramName</i>
-------------------	----------------------------------

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	<i>ProgramName</i> Too many values after parameter <i>Parameter</i>
-------------------	--

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	<i>ProgramName</i> Missing required parameter '<i>Parameter</i>'.
-------------------	--

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	<i>ProgramNameAmbigUnk</i> switch '<i>Switch</i>'; 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 " <i>Parameter1</i> " and " <i>Parameter2</i> " 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, <i>Parameter1</i> , requires <i>String</i> 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, <i>Argument</i> , does not represent a valid value for the parameter <i>Parameter</i> .
-------------------	---

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. <i>dataset</i> 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 envvar 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 envvar 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 envvar 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.

Severity

svc_c_sev_error

Administrator Response

None.

IOEW16029A	The z/OS Infoprint Server has no information about printer <i>printer_name</i>.
-------------------	--

Explanation

A request for the z/OS Infoprint Server to retrieve printer information failed. This may be due to a component of the Infoprint Server not executing.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Verify that the printer is identified to the z/OS Infoprint Server, and that the z/OS Infoprint Server is active. Using the **dfsshare** command, enable a shared printer definition for that printer. Additional information about the **dfsshare** command is found in *z/OS Distributed File Service SMB Administration* and in the [z/OS Infoprint Server Messages and Diagnosis](#).

IOEW16030I	z/OS Infoprint Server encountered an error in processing API <i>API_name: error_text</i>
-------------------	---

Explanation

The requested processing of the z/OS Infoprint Server resulted in an error. This error may be due to a component of the Infoprint Server not executing.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Determine whether or not the Infoprint Server is executing properly. Diagnose and correct the problem using the error related information supplied. Additional information about diagnosing the problem is found in [z/OS Infoprint Server Messages and Diagnosis](#).

IOEW16031A	Entry point <i>api_name</i> in the z/OS Infoprint Server DLL was not found: <i>query_failure_text</i>
-------------------	--

Explanation

Although the z/OS Infoprint Server was found, some of the API entry points cannot be found.

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 envvar 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 envvar file or the default value if the value in the envvar 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.

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.

IOEW16038I	session_sendto: write error <i>errno</i> for socket <i>socketnum</i> from <i>ip1.ip2.ip3.ip4</i>.
-------------------	--

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.

IOEW16039I	session_receive: read error <i>errno</i> for socket <i>socketnum</i> from <i>ip1.ip2.ip3.ip4</i>.
-------------------	--

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 your service representative.

IOEW16040I	session_receivestream: read error <i>errno</i> for socket <i>socketnum</i> from <i>ip1.ip2.ip3.ip4</i>.
-------------------	--

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 <i>errno</i> for socket <i>socketnum</i> from <i>ip1.ip2.ip3.ip4</i>.
-------------------	---

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 <i>port_number</i> socket <i>socket_function</i> call failed, errno=<i>errno</i>.
-------------------	---

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	<i>service: accept() call for type port failed, errno=errno.</i>
-------------------	---

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	<i>The z/OS Infoprint Server encountered error <i>msgnumber</i> in routine <i>routine_name</i></i>
-------------------	---

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	<i>Use smbpbw to change your RACF DCE segment password.</i>
-------------------	--

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 .

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 .

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 .

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 .

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 .

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 .

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 .

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 .

IOEW16069A	smbinit: gethostname() call failed, errno=errorcode.
-------------------	---

Explanation

An error was encountered while attempting to obtain the TCPIP 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 <i>browseInterval</i> 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 envvar 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	<i>Service port <code>port_number</code> error <code>errno</code> setting socket option <code>socket_option</code>.</i>
-------------------	--

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	<i>service: Unable to receive data on socket, code=<code>rc</code>.</i>
-------------------	--

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 <i>user</i> on client <i>client</i> did not respond to the callback for file <i>file</i> 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 <code>_IOE_SMB_IDMAP</code> and/or <code>_IOE_MVS_DFSDFLT</code> to valid __ values in DFSKERN's <code>envar</code> 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 envvar 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 <code>_IOE_SMB_OCSF</code> 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 envvar file.

IOEW16086A	The primary authentication server <i>ip1.ip2.ip3.ip4</i> 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 envvar file.

IOEW16087A	The backup authentication server <i>.ip1.ip2.ip3.ip4</i> 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 envvar file.

IOEW16092E	Sharename <i>ShareName</i> could not be shared for user <i>User</i> because path <i>Path</i> 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 envvar 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 <i>ShareName</i> could not be shared for user <i>User</i>.
-------------------	---

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 <i>ShareName</i> could not be used because it already has <i>MaxUsers</i> 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 <i>number</i> 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 <i>number</i> 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 envvar 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 `dfskernDFSKERN` envvar 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 <i>Request</i> on socket <i>socket</i> failed with return code <i>rc</i>, reason code <i>rsn</i>.
-------------------	---

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 <i>recvfrom</i> failed with return code <i>rc</i>.
-------------------	---

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 <i>recvfrom</i> failed with return code <i>rc</i>.
-------------------	---

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 envvar 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 ping 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 **DFSERN**'s envvar 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.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

None.

IOEW16119E	The machine with IP address <i>Addr1Addr2Addr3Addr4</i> could not connect because it already has <i>numSessions</i> sessions open with the server. The maximum allowed is <i>maxNumSessions</i>.
-------------------	---

Explanation

The maximum number of concurrent sessions allowed to be connected to the server has already been reached so an additional session could not be created.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Increase the maximum by issuing the MODIFY DFS, SEND DFSKERN, SET, MAXSPC, n command or modifying the DFSKERN envar _IOE_SMB_MAXSPC and restarting the server. Otherwise, examine the workload of the client and modify as needed to reduce the number of sessions that it requires.

IOEW16120I	Each client machine is allowed <i>maximum</i> sessions with the server.
-------------------	--

Explanation

The server will limit the number of concurrent sessions per client machine to the specified maximum.

System action:

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEW16121I	The SMB server will not limit the number of concurrent sessions per client machine.
-------------------	--

Explanation

The server will not limit the number of concurrent sessions per client machine. The operating system will impose its own limit on the number of open sockets it allows.

System action:

The program continues.

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 <i>msglen</i>. Header type=<i>type</i> flags=<i>flags</i> length=<i>hdrlen</i>.
-------------------	--

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 <i>SocketNum</i> from IP address <i>ip1.ip2.ip3.ip4</i> 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 <i>ip1.ip2.ip3.ip4</i> 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 envvar file located in the /opt/dfslocal/home/dfskern 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 envvar file located in the /opt/dfslocal/home/dfskern 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 <i>Domain/User</i> on <i>IpAddr</i> socket <i>SocketNum</i>.
-------------------	--

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 <i>SocketNum</i> request <i>BlockAddr</i>.
-------------------	---

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 <i>SocketNum</i> request <i>BlockAddr</i> return value is <i>RV</i>, return code is <i>RC</i>.
-------------------	---

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 <i>ShareName</i> to <i>IpAddr</i> socket <i>SocketNum</i>.
-------------------	---

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 <i>ShareName</i> to <i>IpAddr</i> socket <i>SocketNum</i>.
-------------------	---

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 *envvar* found in file *file* is not an SMB envvar 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:

envvar

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 <i>line</i> of environment variable file <i>file</i> 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 <i>line</i> of environment variable file <i>file</i> is incorrect. The environment variable <i>envname</i> 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 <i>line</i> of environment variable file <i>file</i> is incorrect. The value <i>envvalue</i> for environment variable <i>envname</i> 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 <i>line</i> of environment variable file <i>file</i> 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 <i>file</i> 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 *envvar* 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.

envvar

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 envvar file.

Explanation

The message was received because the **dfssyntax** utility could not process the envvar 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/dfskern/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.

System action:

The program continues.

Severity

svc_c_sev_error

Administrator Response

Correct the error in the file.

IOEW16163E	An incorrect number of arguments were specified to the dfssyntax utility.
-------------------	--

Explanation

The message was received because **dfssyntax** expects one or less arguments.

System action

The program ends.

Severity

svc_c_sev_error

Administrator Response

Enter the command again with one or less arguments.

IOEW16164E	Line <i>line</i> of environment variable file <i>file</i> is incorrect. The value <i>envvalue</i> for environment variable <i>envname</i> 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_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*.

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 <i>ReturnCode</i>. 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 <i>aggrId</i>.
-------------------	--

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 : <i>syscall_return_code</i>.
-------------------	--

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 smbtab entry: <i>LineContents</i>
-------------------	---

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 <i>ShareName</i> on device <i>DeviceName</i> detached successfully.
-------------------	--

Explanation

The sharename *ShareName* was detached successfully.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18221A	Sharename <i>ShareName</i> 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 <i>ShareName</i> 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 <i>ShareName</i> cannot be shared because path <i>Path</i> does not exist on device <i>DeviceName</i>.
-------------------	---

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: <i>DeviceName:AggrName</i>: Detached successfully.
-------------------	--

Explanation

The aggregate *AggrName* detached successfully.

System action

The program continues.

Severity

svc_c_sev_notice

Administrator Response

None.

IOEX18225A	Sharename <i>ShareName</i> 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 dfskern 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 <i>error_code</i>.
-------------------	--

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 <i>aggrid</i> for aggregate id <i>filesetname</i> does not match file system name <i>filesystemname</i>.
-------------------	--

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 <i>high_volid</i>,<i>low_volid</i> already used for volume <i>fileset1</i>, it cannot be used for <i>fileset2</i>.
-------------------	---

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: <i>ShareName</i>
------------	--

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 <i>fileset_name</i> already used with fileset id <i>high_valid</i> ., <i>low_valid</i> , it cannot be used with <i>fileset1</i> ., <i>fileset2</i> .
-------------------	---

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	Variablevariable 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.

Appendix A. Reason codes

Reason codes are listed by hexadecimal value and include a description of the action required to correct the error. Each reason code is made up of four bytes, `cccc rrrr`, where `cccc` is a halfword reason code qualifier and `rrrr` is the halfword reason code.

The two high-order bytes of the reason codes that are returned contain a value that is used to qualify the contents of the two low-order bytes. Reason code qualifiers for zFS are found within the range `X'EF01' - X'FFFF'`. For information about reason codes outside this range, see [Description and location information](#) in *z/OS UNIX System Services Messages and Codes*.

DF01rrrr reason codes

0001	The File Exporter Exit Routine determined that an unmount was attempted but the file system is busy.
-------------	---

Action

Try the operation again. If it continues to fail, contact the service representative.

0002	The File Exporter Exit Routine request for an open token failed.
-------------	---

Action

An Open request failed. Retry the open. If it continues to fail, contact the service representative.

0003	The File Exporter Exit Routine request for a token failed.
-------------	---

Action

Try the operation again. If it continues to fail, contact the service representative.

0005	The File Exporter Exit Routine was unable to find its Glue Anchor.
-------------	---

Action

Try the operation again. If it continues to fail, contact the service representative.

0006	The File Exporter Exit Routine was unable to obtain a recovery block.
-------------	--

Action

Try the operation again. If it continues to fail, contact the service representative.

0007	The File Exporter Exit Routine was called with an invalid operation.
-------------	---

Action

Try your request again. If it continues to fail, contact the service representative.

0008	A vnode operation has no File Exporter Exit Routine functional support.
-------------	--

Action

Contact the service representative.

0009	There was not enough memory for the Glue Anchor in the UNIX System Services address space.
-------------	---

Action

Try your request again. If it continues to fail, contact the service representative.

000A	There was not enough memory to create a Cell Pool for recovery blocks.
-------------	---

Action

Try your request again. If it continues to fail, contact the service representative.

000B	There was not enough memory to create a Cell Pool for wait structure blocks.
-------------	---

Action

Try your request again. If it continues to fail, contact the service representative.

000D	The File Exporter Exit Routine detected an invalid recovery block id.
-------------	--

Action

Contact the service representative.

000E	The File Exporter Exit Routine detected a missing FID.
-------------	---

Action

Contact the service representative.

000F	The File Exporter Exit Routine detected an invalid osictl header id.
-------------	---

Action

Contact the service representative.

0010	The File Exporter Exit Routine detected that an osictl has no optional parameter.
-------------	--

Action

Contact the service representative.

0011	The File Exporter Exit Routine detected that an invalid server initialization parameter.
-------------	---

Action

Contact the service representative.

0012	The File Exporter Exit Routine detected an invalid revoke token argument length.
-------------	---

Action

Contact the service representative.

0013	The File Exporter Exit Routine detected an invalid async grant token argument length.
-------------	--

Action

Contact the service representative.

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.

6013	Error from <code>osi_getvnode</code>.
Action	
Contact the service representative.	
6014	Error from <code>osi_getvnode</code> token.
Action	
Contact the service representative.	
6015	SAF CKACC returned error.
Action	
The user did not have the correct permission on the object for the operation requested. Change the permissions on the object or have a user that is authorized execute the operation.	
6016	SAF AUDIT returned error.
Action	
Contact the service representative.	
6017	Vm_schedule error.
Action	
Contact the service representative.	
6018	Bad input name from z/OS UNIX.
Action	
Ensure that the file/directory name is not longer than 256 characters. If the name length is valid, contact the service representative.	
6019	Creating a dir on <code>vn_create</code>.
Action	
Contact the service representative.	
601A	Directory operation on a vnode that is not a directory.
Action	
Contact the service representative.	
601B	Invalid operation on a zero-link count vnode.
Action	
Ensure that the object still exists. If it does, contact your service representative.	
601C	Error creating a new file.
Action:	
Try to resolve the problem using the return code. If the problem persists, contact the service representative.	
601D	Error inserting a name in a directory.

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 directory is empty before attempting to remove it.

6034	Error attempting to remove a name from a directory.
-------------	--

Action

Ensure that you are not attempting to remove the . or .. entry from the directory.

If the return code is 133 (ENOSPC), you are trying to remove an entry from a directory that was created before zFS V1R13 and is less than 7 K; therefore it is stored in fragments. However, the file system is owned on a zFS V1R13 or later system and needs a free 8 K block to do the remove. You must grow the file system to make some 8 K blocks available.

Otherwise, contact the service representative.

6035	General vn_remove error.
-------------	---------------------------------

Action

Contact the service representative.

6036	Rmdir error.
-------------	---------------------

Action

Contact the service representative.

6037	General rename error.
-------------	------------------------------

Action

Contact the service representative.

6038	Target directory is a descendant of source directory.
-------------	--

Action

Ensure that the target of an mv is not the descendent of the source directory. For example, mv /a /a/b.

6039	Target of rename is a directory while the source of rename is not.
-------------	---

Action

Ensure that you are not attempting to rename a file to an existing directory.

603A	Target of rename is a directory but was not empty.
-------------	---

Action

Ensure that the directory that is the target of a rename is empty.

603B	Error replacing name with new name in a directory.
-------------	---

Action

Contact the service representative.

603C	General setattr error.
-------------	-------------------------------

Action

Contact the service representative.

603D	SAF chgmode error.
-------------	---------------------------

Action

Ensure that you are authorized to change the permissions.

603E	SAF chgowner error.
-------------	----------------------------

Action

Ensure that you are authorized to change the owner and that the new owner and group is valid.

603F	Attempt to truncate a directory, not allowed.
-------------	--

Action

Ensure that you are not attempting to truncate a directory.

6040	SAF clrsetid error.
-------------	----------------------------

Action

Contact the service representative.

6041	SAF chaudit error.
-------------	---------------------------

Action

Contact the service representative.

6042	Guardtime check on setattr failed.
-------------	---

Action

Contact the service representative.

6043	Operation required owner privileges and user did not have them.
-------------	--

Action

Ensure that you are the owner of the object.

6044	Setattr truncation error.
-------------	----------------------------------

Action

Contact the service representative.

6045	Symlink error.
-------------	-----------------------

Action

Contact the service representative.

6046	Symlink name already exists.
-------------	-------------------------------------

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-compatible 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-compatible 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-compatible mount, - syntax in IOEFSPRM file.**

Action

Ensure that the syntax of the AGGRFULL option in the IOEFSPRM file is valid.

6058 **HFS-compatible mount, - error attaching aggregate or was found not to be HFS-compatible.**

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 pfscctl 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.

6064	Failed writing data into the user buffer.
Action	
Contact the service representative.	
6065	Failed obtaining user credential information by <code>osi_getcred</code>.
Action	
Contact the service representative.	
6066	The caller is not UID 0.
Action	
Ensure that you are properly authorized for this operation. This subcommand requires UID 0 or READ access to the SUPERUSER.FILESYS.PFSCTL profile in the z/OS UNIXPRIV class.	
6067	Failure in <code>osi_wait</code> service.
Action	
Contact the service representative.	
6068	PFS control command failed.
Action	
Check the return code to determine why the pfsctl function failed.	
6069	Insufficient space on aggregate.
Action	
Ensure that there is sufficient space on the aggregate.	
606A	Container does not have an allocation handle.
Action	
Contact the service representative.	
606B	Incorrect aggregate handle.
Action	
Contact the service representative.	
606C	Incorrect anode handle.
Action	
Contact the service representative.	
606D	Index is out of range or anode is not valid.
Action	
Contact the service representative.	
606E	Incorrect, undefined or inconsistent arguments.

Action

Verify that the new size on grow is greater than the current size. The **zfsadm aggrinfo** command displays the current size in 1K blocks. Divide this amount by 8 to get the current size in 8K blocks. If this is not the case for the reason code, contact the service representative.

6070	The acl or plist file handle is not valid.
------	--

Action

Contact the service representative.

6071	Incorrect, undefined or inconsistent command value.
-------------	--

Action

Contact the service representative.

6072	A volume table index is not valid.
------	------------------------------------

Action

Contact the service representative.

6073	Fid unique identifier does not match.
------	---------------------------------------

Action

Contact the service representative.

6074 Fid volume ID does not match.

Action

Contact the service representative.

6075	Incorrect volume handle.
------	--------------------------

Action

Contact the service representative.

6076	Incorrect file handle.
------	------------------------

Action

Contact the service representative.

6077	File cannot have negative link count.
------	---------------------------------------

Action

Contact the service representative.

6078	No additional volumes are in the aggregate.
------	---

Action

Contact the service representative.

6079	No additional containers are in the volume.
------	---

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.

6087	The superblock does not lead to an AVL.
-------------	--

Action

Contact the service representative.

6088	The file does not point to an acl container.
-------------	---

Action

Contact the service representative.

6089	Container is stored inline or fragmented.
-------------	--

Action

Contact the service representative.

608A	Container is stored inline or blocked.
-------------	---

Action

Contact the service representative.

608B	Container is stored fragmented or blocked.
-------------	---

Action

Contact the service representative.

608C	An anode being deleted is still open.
-------------	--

Action

Contact the service representative.

608D	An anode is not empty.
-------------	-------------------------------

Action

Contact the service representative.

608E	Other containers using these blocks for copy-on-write purposes.
-------------	--

Action

Contact the service representative.

608F	Read operation extends past container length.
-------------	--

Action

Contact the service representative.

6090	Specified size of the status area is too large.
-------------	--

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.

609D	Incorrect block insertion parameters.
-------------	--

Action

Contact the service representative.

609E	A rock was specified whose value was zero.
-------------	---

Action

Contact the service representative.

609F	A volume was referenced while going offline.
-------------	---

Action

Contact the service representative.

60A0	An aggregate was referenced while going offline.
-------------	---

Action

Contact the service representative.

60A2	The container does not contain a volume header.
-------------	--

Action

Contact the service representative.

60A3	Volume does not have a root directory.
-------------	---

Action

Contact the service representative.

60A5	Current® operation is not finished.
-------------	--

Action

Contact the service representative.

60A6	Anode must be copy-on-write.
-------------	-------------------------------------

Action

Contact the service representative.

60A7	Write operation encountered an inconsistent state.
-------------	---

Action

Contact the service representative.

60A8	Existing fragment group cannot be extended.
-------------	--

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.

60CA	The specified transaction is active.
-------------	---

Action

Contact the service representative.

60CB	The specified transaction has ended.
-------------	---

Action

Contact the service representative.

60CC	The specified transaction has completed.
-------------	---

Action

Contact the service representative.

60CD	The specified transaction has committed.
-------------	---

Action

Contact the service representative.

60D1	No buffers were available to satisfy the request.
-------------	--

Action

Contact the service representative.

60D4	Cannot log additional devices.
-------------	---------------------------------------

Action

Contact the service representative.

60D5	The requested log already exists.
-------------	--

Action

Contact the service representative.

60D8	There is no available space on the log device.
-------------	---

Action

Contact the service representative.

60D9	One or more arguments are not valid.
-------------	---

Action

Contact the service representative.

60DA	Could not read log in for recovery.
-------------	--

Action

Contact the service representative.

60DD	An error was encountered.
-------------	----------------------------------

Action

Contact the service representative.

60DE	An incorrect reference was found.
-------------	--

Action

Contact the service representative.

60DF	An incorrect log record was found.
-------------	---

Action

Contact the service representative.

60E0	VAn internal system check ended in error.
-------------	--

Action

Contact the service representative.

60E1	An incorrect log page was encountered.
-------------	---

Action

Contact the service representative.

60E2	A null pointer reference was detected.
-------------	---

Action

Contact the service representative.

60E3	An incorrect pointer was detected.
-------------	---

Action

Contact the service representative.

60E4	An incorrect record type was found during redo.
-------------	--

Action

Contact the service representative.

60E5	An incorrect record type was found during undo.
-------------	--

Action

Contact the service representative.

60E6	An I/O error was detected during recovery.
-------------	---

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.

6113	Unable to find appropriate commands.
-------------	---

Action

Contact the service representative.

6114	Token too large.
-------------	-------------------------

Action

Contact the service representative.

6115	File system in process of deletion.
-------------	--

Action

Contact the service representative.

6117	File System busy with setstatus operation.
-------------	---

Action

Contact the service representative.

611B	File System is being moved.
-------------	------------------------------------

Action

Contact the service representative.

611C	File System operation in progress.
-------------	---

Action

Contact the service representative.

611D	File System has been deleted.
-------------	--------------------------------------

Action

Contact the service representative.

611E	File System busy with clone.
-------------	-------------------------------------

Action

Contact the service representative.

611F	File System is damaged.
-------------	--------------------------------

Action

Contact the service representative.

6120	File System is out of service.
-------------	---------------------------------------

Action

Contact the service representative.

6121

Aggregate is being detached.

Action

Contact the service representative.

6123 **Fsync attempted on an object that is not a directory or a regular file.**

Action

Ensure that the fsync operation is issued against a directory or a regular file.

6124	Directory sync attempted on an object that is not a directory.
------	--

Action

Ensure that the directory sync operation is issued against a directory.

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

Initial empty 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

Contact the service representative.

6143	Error creating or writing new aggregate structures.
-------------	--

Action

Contact the service representative.

6144	Error syncing device to disk.
-------------	--------------------------------------

Action

Contact the service representative.

6145	Internal error creating basic aggregate disk structures.
-------------	---

Action

Contact the service representative.

6146	Internal error locating aggregate structure.
-------------	---

Action

Contact the service representative.

6147	Error obtaining aggregate size information.
-------------	--

Action

Contact the service representative.

6148	Formatting an attached aggregate.
-------------	--

Action

Verify you are using the correct aggregate name. If the problem persists, contact the service representative.

614A	GetfACL request was for an undefined ACL type value.
-------------	---

Action

If you specified an invalid ACL type, correct it. Otherwise, contact the service representative.

614B	Internal error reading ACL from disk.
-------------	--

Action

Retry the operation and if it continues to fail, contact the service representative.

614C	Object is not a directory so a File Default or Directory Default ACL cannot be changed.
-------------	--

Action

Either use the correct directory or modify the command to operate on a File ACL.

614D	SetfACL request was for an undefined ACL type value.
-------------	---

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 pfscctl 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 pfscctl.

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.

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 FSDT.

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 pfscctl 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 pfscctl 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 pfscctl 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 acs, 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 ioagfmt.

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

Contact the service representative.

6404	Tried to exceed log buffer cache size limit, which is 1024M bytes.
-------------	---

Action

Specify a log cache size of 1024M or less.

6405	Could not extend the log buffer dataspace.
-------------	---

Action

Contact the service representative.

6406	Attempt to set metacache too small, min is 1M.
-------------	---

Action

Specify a meta cache size of 1M or more.

6407	Attempt to set metacache too big, max is 64G.
-------------	--

Action

Specify a meta cache size of 64G or less.

6408	Attempt to change metacache size failed.
-------------	---

Action

The meta cache size could not be made smaller than the current size. Continue to run with the current size or try again later.

6409	Attempt to set tran cache too small, min is 200.
-------------	---

Action

Specify a tran cache size of 200 or more.

640A	Attempt to set tran cache too big, max is 10000000.
-------------	--

Action

Specify a tran cache size of 10000000 or less.

640B	Attempt to change tran cache size failed.
-------------	--

Action

The tran cache size could not be made smaller than the size specified. Continue to run with the current size or try again later.

640C	Attempt to set vnode cache too small, min is 1000.
-------------	---

Action

Specify a vnode cache size of 1000 or more.

640D	Attempt to set vnode cache too big, max is 10000000.
-------------	---

Action

Specify a vnode cache size that is less than or equal to the maximum of 10000000.

640E	Attempt to change vnode cache size failed.
-------------	---

Action

The vnode cache size could not be made smaller than the size specified. Continue to run with the current size or try again later.

640F	Attempt to set log cache size too small.
-------------	---

Action

Specify a log cache size of 2M or more.

6410	Attempt to set metacache backing too small, min is 1M.
-------------	---

Action

Specify a metaback cache size of 1M or larger.

6411	Attempt to set metacache backing too big, max is 2G.
-------------	---

Action

Specify a metaback cache size of 2048M or smaller.

6412	Attempt to change metacache backing size failed.
-------------	---

Action

Contact the service representative.

6413	CFG_OPTION structure invalid.
-------------	--------------------------------------

Action

Correct the CFG_OPTION structure.

6414	option value string (co_string) was not syntactically correct in CFG_OPTION struct.
-------------	--

Action

Correct the value for the co_string.

6415	Sync interval smaller than 11 second minimum.
-------------	--

Action

Specify a sync interval of 11 or greater.

6416	Attempt to make the USER cache too small.
-------------	--

Action

Specify a configuration option USER_CACHE_SIZE value of 10M or greater.

6417	Thread pool set too small.
-------------	-----------------------------------

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_mtname 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.
-------------	--

Action

Restart this system or the system that this system thinks owns the aggregate.

6509	Received an FSNOTIFY request for an aggregate that is marked pending.
-------------	--

Action

Wait a few minutes to see if the situation corrects itself. If the problem persists, restart the system that this system thinks owns the aggregate.

650A	Received an FSNOTIFY request for a file system that we do not have any information about.
-------------	--

Action

Unmount the file system or restart the system that owns the aggregate.

650B	Received an FSNOTIFY request to rename a file system and the new name already exists.
-------------	--

Action

Contact your service representative.

650C	Could not make an FSNOTIFY 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.

650D	Directory or file seclabel is not zero.
-------------	--

Action

When linking to a target file that is a special character file, neither the directory nor the target file can have a seclabel. Either remove the seclabel or do not attempt to create this link.

650F	Directory and file seclabels not equivalent during link.
-------------	---

Action

When linking a file, the target file's seclabel and the directory seclabel must be equivalent. Make the seclabels equivalent or do not attempt the link.

6512	List Systems buffer and buffer length must both be zero or both non-zero.
-------------	--

Action

The offsets at parms0 and parms1 must be both either zero or both non-zero. It is not valid for one to be zero and the other to be non-zero.

6513	List Systems buffer is too small.
-------------	--

Action

The buffer and length passed in parms0 and parms1 is too small to hold the result to be returned. Use the size field returned (offset to size is in parms2) to determine the size of the buffer needed.

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 set to 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.

6619	A server system does not understand or support the packet sent by a client system. It may be that there is an incompatibility in the required service levels among members of a sysplex.
-------------	---

Action

If the service levels of all sysplex members are at the same level, 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).

6652 **The aggregate specified for the pfsctl operation is owned by a system which may be down.**

Action

A compatibility mode aggregate should be taken over by another system. Reissue the operation after it has been taken over. If it is not taken over by another system in a reasonable amount of time, you should unmount it and then mount it again.

6653 **Statistics Locking Query Parm0 value is invalid.**

Action

The Parm0 value for the Statistics Locking Query subcommand must be 32.

6654 **Statistics Storage Query Parm0 value is invalid.**

Action

The Parm0 value for the Statistics Storage Query subcommand must be 32.

6655 **Statistics Locking Query Parm1 value is invalid.**

Action

The Parm1 value for the Statistics Locking Query subcommand must be 80.

6656 **Statistics Storage Query Parm1 value is invalid.**

Action

The Parm1 value for the Statistics Storage Query subcommand must be 80.

6657 **Statistics Iocounts Query Parm0 value is invalid.**

Action

The Parm0 value for the Statistics Iocounts Query subcommand must be 32.

6658 **Statistics Iocounts Query Parm1 value is invalid.**

Action

The Parm1 value for the Statistics Iocounts Query subcommand must be 80.

6659 **Statistics Iobyaggr Query Parm0 value is invalid.**

Action

The Parm0 value for the Statistics Iobyaggr Query subcommand must be 32.

665A **Statistics Iobyaggr Query Parm1 value is invalid.**

Action

The Parm1 value for the Statistics Iobyaggr Query subcommand must be 80.

665B **Statistics Iobydasd Query Parm0 value is invalid.**

Action

The Parm0 value for the Statistics Iobydasd Query subcommand must be 32.

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.

666D	Internal failure.
------	-------------------

Action

An internal failure occurred. Contact the service representative.

666F	Internal failure during a write lock operation.
-------------	--

Action

Contact the service representative.

6670	Internal failure during a read lock operation.
------	--

Action

Contact the service representative.

6671	Internal failure during a truncate operation.
-------------	--

Action

Contact the service representative.

6672	Internal failure during a lock operation.
-------------	--

Action

Contact the service representative.

6673	Internal failure during a rename operation.
------	---

Action

Contact the service representative.

6674	Internal failure during a quiesce operation.
------	--

Action

Contact the service representative.

6675	Reserved bytes must be zero.
-------------	-------------------------------------

Action

The sa_fill bytes in the STAT_API must be zeros.

6676	Reserved bytes must be zero.
-------------	-------------------------------------

Action

The sa_reserve bytes in the STAT_API must be zeros.

6677	Aggregate is quiesced but caller does not want to wait.
-------------	--

Action

The aggregate is quiesced but the caller has made a request that cannot wait. The call returns with a failure.

6680	Failure during attempt to add items to the buffer cache.
-------------	---

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

Fix the length and retry.

66EB	Length for parm5 is bad.
-------------	---------------------------------

Action

Fix the length and retry.

66EC	Length for parm6 is bad.
-------------	---------------------------------

Action

Fix the length and retry.

66ED	Invalid parm to afscall_health.
-------------	--

Action

An internal failure occurred. Contact the service representative.

66EE	CQ_QUERY_DEFAULT structure invalid.
-------------	--

Action

Correct the CQ_QUERY_DEFAULT structure.

66EF	QUERY_COMPRESSION_HEALTH_STATS structure has a bad eyecatcher.
-------------	---

Action

Correct the QUERY_COMPRESSION_HEALTH_STATS structure.

66F0	QUERY_COMPRESSION_HEALTH_STATS structure has a bad length field.
-------------	---

Action

Correct the QUERY_COMPRESSION_HEALTH_STATS structure.

66F1	QUERY_COMPRESSION_HEALTH_STATS structure has a bad version.
-------------	--

Action

Correct the QUERY_COMPRESSION_HEALTH_STATS structure.

6700	Could not set the parm value as requested.
-------------	---

Action

An internal failure occurred. Contact the service representative.

6701	Invalid parm to afscall_config.
-------------	--

Action

An internal failure occurred. Contact the service representative.

6702	Could not obtain lock during vnode_cache_limit processing.
-------------	---

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.

670D	Internal failure during remove operation.
-------------	--

Action

An internal failure occurred. Contact the service representative.

670E	Internal failure during rename operation.
-------------	--

Action

An internal failure occurred. Contact the service representative.

670F	Internal failure during vnode lookup operation.
-------------	--

Action

An internal failure occurred. Contact the service representative.

6711	Internal failure during acl update.
-------------	--

Action

An internal failure occurred. Contact the service representative.

6714	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

6715	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

6716	Internal failure during attach operation.
-------------	--

Action

An internal failure occurred. Contact the service representative.

6717	Internal failure during filesystem deplete.
-------------	--

Action

An internal failure occurred. Contact the service representative.

6718	Internal failure setting size of the metadata buffer cache.
-------------	--

Action

An internal failure occurred. Contact the service representative.

6719	Internal failure setting size of the metadata backing cache.
-------------	---

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

An internal failure occurred. Contact the service representative.

6743	Error attempting to receive or reply to a sysplex message.
-------------	---

Action

Use the associated return code to diagnose the problem. See [Return codes \(errnos\)](#) in *z/OS UNIX System Services Messages and Codes* for a description of the return code.

6745	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

6746	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

6747	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

6748	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

6749	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

674A	Internal failure. Trying to send after shutdown or abort started.
-------------	--

Action

An internal failure occurred. Contact the service representative.

674B	Internal failure. User cache not initiated.
-------------	--

Action

An internal failure occurred. Contact the service representative.

674C	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

674D	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

674E	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

6750	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

6751	Internal failure. Invalid state for vnd_Create.
-------------	--

Action

An internal failure occurred. Contact the service representative.

6752	Internal failure. Invalid last called for vnd_Create.
-------------	--

Action

An internal failure occurred. Contact the service representative.

6753	Internal failure. Invalid last called for vnd_Delete.
-------------	--

Action

An internal failure occurred. Contact the service representative.

6754	Internal failure. Error in vnd_CheckPath.
-------------	--

Action

An internal failure occurred. Contact the service representative.

6755	Internal failure. Error in vnd_Checkpath.
-------------	--

Action

An internal failure occurred. Contact the service representative.

675D	Internal failure. Error in vnd_Read of vnd_Read_mlsnvalid.
-------------	---

Action

An internal failure occurred. Contact the service representative.

675E	Internal failure. Invalid state in vnd_Read.
-------------	---

Action

An internal failure occurred. Contact the service representative.

675F	Internal error in vnd_Read.
-------------	------------------------------------

Action

An internal failure occurred. Contact the service representative.

6760	Internal failure. Error in vnd_dirCheck.
-------------	---

Action

An internal failure occurred. Contact the service representative.

6763	Error formatting vector for owner.
-------------	---

Action

Insufficient memory. Retry the operation. If the problem continues, contact the service representative.

6764	Original owning system is no longer active.
-------------	--

Action

zFS ownership of the aggregate will not be changed.

6769	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

676A	Internal failure.
-------------	--------------------------

Action

An internal failure occurred. Contact the service representative.

676B	Task was abended during operation.
-------------	---

Action

None.

676D	Request failed due to grow in process.
-------------	---

Action

The request failed because zFS is busy doing a grow operation. Retry the request when the grow completes.

676E	An unknown RACF error occurred.
-------------	--

Action

An unknown RACF error occurred. Contact the service representative.

676F	RACF was passed invalid parameters.
-------------	--

Action

Verify whether RACF was passed invalid parameters. Contact the service representative.

6770	An internal error occurred during RACF processing.
-------------	---

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 lsaggr** 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 readdir.
-------------	---

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.

6950	Internal failure during queue tokens.
-------------	--

Action

Contact the service representative.

6951	Internal failure during zlc list create.
-------------	---

Action

Contact the service representative.

6952	Internal failure no sender.
-------------	------------------------------------

Action

Contact the service representative.

6953	The chgowner command could not be processed because either the original or new owner does not support this function or the aggregate is not sysplex-aware.
-------------	---

Action

Contact the service representative.

6954	Internal failure - catchup on owner.
-------------	---

Action

Contact the service representative.

6955	Internal failure - could not obtain tokens for a file.
-------------	---

Action

Contact the service representative.

6956	Out of storage during a client file operation.
-------------	---

Action

A failure to obtain storage occurred during a client file operation. Try to take actions to release storage and retry the operation.

6957	Internal failure - cannot get agsyslock
-------------	--

Action

Contact the service representative.

6958	Error reading file.
-------------	----------------------------

Action

Contact the service representative.

6959	Could not truncate file.
-------------	---------------------------------

Action

Contact the service representative.

695A	Could not write file.
-------------	------------------------------

Action

Contact the service representative.

695B	Could not get anode after file read.
-------------	---

Action

Contact the service representative.

695C	Could not get anode after file write.
-------------	--

Action

Contact the service representative.

695D	Could not fsync file.
-------------	------------------------------

Action

Contact the service representative.

695E	NFS share reservations are not supported on this File System level.
-------------	--

Action

Contact the service representative.

695F	A file may not be opened with Deny flags if O_NONBLOCK is off.
-------------	---

Action

Change the program to set O_NONBLOCK on and to handle the open being rejected with EBUSY.

6960	This open or operation conflicts with a share reservation that has denied the access intended.
-------------	---

Action

Wait awhile and try again or end the program that has the file open with a reservation.

6961	The file is already open in a way that this open is trying to deny.
-------------	--

Action

Wait awhile and try again or end the program that has the file open.

6962	The open was waiting due to a conflict, and then was interrupted causing the open to fail.
-------------	---

Action

Wait awhile and try again or end the program that caused the interrupt.

6963	An attempt to refresh a sysplex client cache has failed unexpectedly.
-------------	--

Action

If the file system object was not recently deleted and there were no reported ZFS errors then contact the service representative.

6964	An internal error was found in sysplex server local user token management.
-------------	---

Action

Contact the service representative.

6965	An internal error was found in sysplex server remote user token management.
-------------	--

Action

Contact the service representative.

6967	An internal error was found trying to start a zfsadm cache resize operation.
-------------	---

Action

Contact the service representative.

6968	A cache resize operation could not be started because zFS is shutting down.
-------------	--

Action

Set the cache to the appropriate size after you restart zFS.

6969	A cache resize operation could not be started because zFS is just starting.
-------------	--

Action

Retry the operation after zFS has completed initialization.

696A	A cache resize operation could not be started due to other in-progress admin commands.
-------------	---

Action

Retry the operation after zFS has completed the in-progress admin commands.

696B	The program calling zFS terminated causing zFS to reach End Of Memory.
-------------	---

Action

zFS continues.

696C	Aggregate and filesystem cannot be used when mounting a compat aggregate.
-------------	--

Action

Remove the aggregate and/or filesystem parms and retry.

696D	Bulk Times attempted while quiesced.
-------------	---

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

69AE	The GRS concurrent ENQ limit has been reached.
-------------	---

Action

Increase your systems concurrent limit to ensure proper functionality.

69AF	An internal error was encountered during a GRS ENQ call.
-------------	---

Action

Contact IBM service.

69B0	An internal error was encountered during an IGSQRY call.
-------------	---

Action

Contact IBM service.

69B1	Aggregate cannot be opened in R/W mode on client system.
-------------	---

Action

The aggregate is attached in R/W mode and a sysplex client has received a catch-up mount for it and that client does not have the sysplex-aware support enabled. Therefore the mount is failed. This is normal. z/OS UNIX will function ship zFS requests from this system to the owning system.

69B2	LSAGGR cannot obtain buffer for GRS QUERY call.
-------------	--

Action

Contact IBM service.

69B3 **LSAGGR cannot obtain HASH table buffer.**

Action

Contact IBM service.

69B4 **zFS could not obtain an ENQ required for the quiesce operation.**

Action

Contact IBM service.

69B5 **An unmount was requested and the file system was busy with an administration command.**

Action

Either wait for the command to complete or issue unmount with the FORCE option to interrupt the administration command.

69B6 **An internal error was encountered during sysplex client processing of aggregate quiesce.**

Action

Contact IBM service.

69B7 **An internal error was encountered during sysplex client locking of name in directory.**

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 <code>zfsadm chaggr</code> command or <code>pfsctl</code>.
-------------	---

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.
-------------	--

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.

6C0E	The aggregate attributes cannot be changed at this time. The aggregate may not be in a consistent state across all members in the sysplex due to problems sending sysplex messages.
-------------	--

Action

Wait until the problem is fixed and then try the command again. If the problem persists, contact your service representative.

6C0F	The request failed because the -rwshare on and -rwshare off attributes were both specified for the aggregate.
-------------	--

Action

Try again, specifying **-rwshare on** or **-rwshare off**.

6C10	An invalid value was specified for the -rwshare aggregate attribute.
-------------	--

Action

The **-rwshare** aggregate attribute takes a value of either ON or OFF. When using the **chaggr** API, use the corresponding value, which is either 1 (for ON) or 2 (for OFF).

6C11	The aggregate attribute cannot be changed to both -aggrfull xx,yy and -aggrfull off.
-------------	---

Action

Limit your request to one attribute value and try again.

6C12	Errors were encountered changing the aggregate space monitoring attribute. Aggregate space monitoring is turned off.
-------------	---

Action

The zFS address space is most likely out of storage. Try the operation again after making more storage available. If the problem persists, contact your service representative.

6C13	Errors were encountered changing the aggregate attribute.
-------------	--

Action

If the zFS address space is out of storage, try the operation again after making more storage available. If the problem persists, contact your service representative.

6C14	EDC buffer pool too big.
-------------	---------------------------------

Action

Ensure that the -edc_buffer_pool value specified is not more than 1024M.

6C15	EDC buffer pool too small.
-------------	-----------------------------------

Action

Ensure that the -edc_buffer_pool value specified is at least 10M.

6C18	The sharemode mount parm could not be updated. The corresponding aggregate sharemode remains unchanged.
-------------	--

Action

zFS encountered an error changing the sharemode mount parm. Try again and if the problem persists, contact your service representative.

6C19	The aggregate sharemode could not be updated to match the updated mount parm. zFS will attempt to restore the original sharemode mount parm.
-------------	---

Action

Determine whether the sharemode attribute and mount parm match. Issue **zfsadm fsinfo** to get the sharemode attribute and issue **D OMVS,F,N=** to get the mount parm. If they do not match, issue another samemode remount. If the problem persists, contact your service representative.

6C1A	Invalid salvage type. The salvage type must be 1, 2, or 3, indicating verify only, verify and repair, or cancel.
-------------	---

Action

Specify the correct salvage type and try the operation again.

6C1B	AGGR_FORMAT has an invalid af_encrypt value. The value must be 0, 1, or 2.
-------------	---

Action

Correct the value and retry.

6C1C	AGGR_FORMAT has an invalid af_compress value. The value must be 0, 1, or 2.
Action	
Correct the value and retry.	
6C1D	A format operation with encryption or compression setting was attempted in a sysplex that contains earlier release systems.
Action	
Encryption or compression is not allowed in a sysplex that contains earlier release systems. Retry when all sysplex members are at least at z/OS V2R3.	
6C21	No thread available for the requested long-running command.
Action	
Consider increasing the size of the long_cmd_threads pool. Retry the request when there is an available thread for the long-running command.	
6C22	Aggregate could not be shrunk. It is mounted in R/O mode.
Action	
The aggregate must be mounted read-write to be shrunk.	
6C23	Unexpected error shrinking aggregate.
Action	
Contact the service representative.	
6C24	The new size is not smaller than the current aggregate size.
Action	
Use the zfsadm fsinfo command to determine the size of the aggregate. Try the command again with a new size that is smaller than the current aggregate size.	
6C25	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.	
6C26	The eye catcher of the SH_REQ structure is not SHRQ.
Action	
Correct the eye catcher and try the command again.	
6C27	The sh_len field of the SH_REQ structure is incorrect.
Action	
Correct the sh_len value and try the command again.	
6C28	The sh_ver field of the SH_REQ structure is incorrect.

Action

Correct the sh_ver value and try the command again.

6C29	The sh_flags field of the SH_REQ structure is incorrect.
-------------	---

Action

Correct the sh_flags value and try the command again.

6C2A	The sh_command field of the SH_REQ structure is incorrect.
-------------	---

Action

Correct the sh_command value and try the command again.

6C2B	The sh_reserved field of the SH_REQ structure is not all zeros.
-------------	--

Action

Correct the sh_reserved value and try the command again.

6C2C	The value in the sh_length field of the SH_REQ structure is not allowed. This value is larger than the maximum aggregate size.
-------------	---

Action

Ensure that the specification of new size for the aggregate is correct and try again.

6C2D	The option to prevent active increase (-noai) is not allowed with the stop (-cancel) command.
-------------	--

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 edcfixed option to fix the user file cache. The edcfixed option is limited to 14GB user file caches or less.
-------------	---

Action:

Either make the user file cache smaller or do not specify the edcfixed 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.

Action

The key label can be specified when defining the aggregate or with the **zfsadm encrypt** command -keylabel option. Correct the error and retry the operation.

6C71	-keylabel is not allowed when -system specifies a system at a release prior to z/OS V2R3.
-------------	--

Action

Either remove -keylabel, remove -system, or specify a system at release z/OS V2R3 or later.

6C72	Converting a migrated file system to a version 1.4 aggregate is not allowed.
-------------	---

Action

If this is not a migrated file system, contact the service representative.

6C73	The edcfixd option was specified with user_cache_size, but the user cache pages cannot be registered with the zEDC Express service.
-------------	--

Action

If the zEDC Express service is not available, ensure that the edcfixd option is not used with the user_cache_size option in the IOEFSPRM member. Also, ensure that it is not used with the **zfsadm config -user_cache_size** command.

6C74	Aggregate could not be encrypted or decrypted. It is mounted in R/O mode.
-------------	--

Action:

The aggregate must be mounted read-write to be encrypted or decrypted.

6C75	Aggregate could not be compressed or decompressed. It is mounted in R/O mode.
-------------	--

Action:

The aggregate must be mounted read-write to be compressed or decompressed.

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.
Action:	Ensure that zEDC is initialized and try the operation again.
6C8A	The mount or ownership change fails because zEDC is not initialized. The aggregate is compressed and requires zEDC to be ready before it can be mounted or owned on this system.
Action:	Try the operation again after zEDC is initialized.
6C8B	ICSF is not available. The encrypt or decrypt operation is failed.
Action:	Ensure that ICSF is initialized and try the operation again.
6C8C	A zfsadm compress command was attempted but no zEDC devices are available at the time the command was issued.
Action:	Try the operation again after zEDC devices are available.
6C8D	This function is currently not supported.

Action:

Contact your service representative to find out when the support will be available, and how to install it.

6C8E

The command failed because the aggregate is disabled. 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. 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, try the command again. If zFS cannot re-enable the aggregate automatically, you will need to unmount/mount or remount the aggregate before the command can be attempted again.

6C8F

The bk_attrBufferLen specified is too small.

Action:

Change the program to obtain a larger buffer. Then retry the operation.

6C90

The bk_aclBufferLen specified is too small.

Action:

Change the program to obtain a larger buffer. Then retry the operation.

6C92

Backup of a file is not allowed when it is contained in an aggregate that is shrinking.

Action:

Try the operation again after the shrink completes.

6C93

Shrink of an aggregate is not allowed if files in it are being backed up.

Action:

Try the operation again after the file backups complete.

6C94

Internal error committing a transaction. However, the operation may have succeeded.

Action:

If needed, try the operation again. If the problem persists, contact the service representative.

6C95

Internal error while backing up a file.

Action:

Contact the service representative.

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 NORWSHARE 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.	
6CA6	For a single aggregate query, the buffer passed to FSINFO is too small to contain all of the requested file system statistics.
Action:	

Use a larger buffer size and try the FSINFO request again. Use a buffer size of at least 145K for a single aggregate FSINFO query.

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.	

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