z/OS
2.5

Data Set File System Messages and Codes

IBM

Note

Before using this information and the product it supports, read the information in "Notices" on page 119.

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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Contents

About this document

The purpose of this document is to provide complete and detailed guidance and reference information. This information is used by system administrators who work with z/OS Data Set File System (DSFS).

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).

How to send your comments to IBM

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- Your name, company/university/institution name, and email address
- The following deliverable title and order number: z/OS Data Set File System Messages and Codes, GI13-5604-50
- The section title of the specific information to which your comment relates
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- Contact your IBM service representative.
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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).

Summary of changes for z/OS Version 2 Release 5 (V2R5)

New messages

None.

Changed messages

IDFS00348I (APAR OA64023)
IDFS00324E (APAR OA63218)
IDFS00325E (APAR OA63218)
IDFS00326I (APAR OA63218)
IDFS00327I (APAR OA63218)
IDFS00351A (APAR OA63218)
IDFS00352I (APAR OA63218)
IDFS00353I (APAR OA63218)
IDFS00159I (APAR OA63387)

Deleted messages

None.

New reason codes

6232 (APAR OA63218)
6243 (APAR OA63214)

Changed reason codes

618F (APAR OA64023)
6163 (APAR OA64023)
6021 (APAR OA63218)
621A (APAR OA63218)
621B (APAR OA63218)
6235 (APAR OA63218)
623A (APAR OA63218)
623C (APAR OA63218)
6242 (APAR OA63218)

Deleted reason codes

6230 (APAR OA63218)

New return codes

None.

Changed return codes

None.

Deleted return codes

None.

Chapter 1. Introduction to DSFS Messages and Codes

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

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 IBM Documentation (www.ibm.com/docs/en/zos).

Understanding DSFS messages

Messages are divided into three categories: action, error, and informational. Those of the form IOEZ*nnnnnt* are issued by DSFS, while messages prefixed with IOEZH*nnnnt* are issued from the DSFS 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 . 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 DSFS 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 DSFS reason code:

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

```
D A,DSFS
```

2. Look for the ASID of the DSFS address space in A=nnnn.

3. Use the following SLIP command to produce a dump when a specific reason code is issued:

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

nnnn

The DSFS ASID

xxxxxxxx

The 4-byte DSFS reason code to trap.

jobname

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

Chapter 2. Messages

The following messages may result from DSFS processing.

IDFS00001E	**DSFS I/O error *error_code* occurred for utility file system *file_name*.**

Explanation

A physical I/O error occurred on utility file system *file_name*. Additional messages are provided that give more information about the error.

error_code
　　The VSAM error code.

file_name
　　The utility file system name.

System action

The program continues.

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.

IDFS00002E	**MMRE error id=*IO_id* cis=*control_intervals* if=*input_flags* of=*output_flags* buf=*buffer_address* CI=*interval_number*.**

Explanation

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

IO_id
　　The I/O ID indicating direction.

control_intervals
　　The number of control intervals involved.

input_flags
　　The Media Manager input flags.

output_flags
　　The Media Manager output flags.

buffer_address
　　The DSFS buffer address.

interval_number
　　The starting control interval number.

System action

The program continues.

Administrator response

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

IDFS00003I   **Primary extent loaded successfully for *file_name*.**

Explanation

The device driver has finished loading the primary extent of the named utility file system.

file_name
    Name of the utility file system.

System action

The program continues.

IDFS00004A   **DSFS kernel unable to be set up to receive operator commands.**

Explanation

The program was not able to be set up to receive MODIFY commands from the operator.

System action

The program continues.

Administrator response

Contact your service representative.

IDFS00005E   ***program_name*: Unable to open debug parameter data set *file_name*.**

Explanation

The *program_name* program was not able to open the DSFS debug parameter data set. Default values will be used for DSFS debugging parameters.

program_name
    The program name.
file_name
    The parameter file name.

System action

The program continues.

Administrator response

Ensure that the *file_name* data set exists and that the *program_name* program has READ data set authority to it. If the problem continues, contact your service representative.

IDFS00006I   ***program_name*: Using default values for DSFS debug parameters.**

Explanation

The *program_name* program is using default values for DSFS debug parameters.

program_name
    The program name.

System action

The program continues.

Administrator response

None.

IDFS00007A   *program_name*: **Incorrect parameter record** *line_error* **is ignored.**

Explanation

The *program_name* program found an incorrect record in the DSFS debug parameters data set.

program_name
    The program name.

line_error
    The line found to be in error.

System action

The program ends.

Administrator response

Correct the error and start *program_name* again.

IDFS00008A   *program_name*: **Operand must be numeric (***operand_name***).**

Explanation

The *program_name* program found a nonnumeric value specified for a numeric operand.

program_name
    The program name.

operand_name
    The operand found to be in error.

System action

The program ends.

Administrator response

Specify a numeric value and start *program_name* again.

IDFS00009A   *program_name*: *operand_name* **exceeds maximum value** *max_value*.

Explanation

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

program_name
    The program name.

operand_name
    The operand found to be in error.

max_value
    The maximum value for the operand.

System action

The program ends.

Administrator response

Ensure that the operand *operand_name* is not larger than the *max_value* and restart *program_name*.

IDFS00010A   *program_name*: **Operand must be string (*operand_name*).**

Explanation
The *program_name* program found a missing string operand.

program_name
    The program name.

operand_name
    The operand found to be in error.

System action

The program ends.

Administrator response

Ensure that the operand *operand_name* is specified and restart *program_name*.

IDFS00011A   *program_name*: *operand_name* **exceeds max string length** *max_length*.

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

program_name
    The program name.

operand_name
    The operand found to be in error.

max_length
    The maximum length for the string.

System action

The program ends.

Administrator response

Ensure that the operand *operand_name* is not greater than *max_length* and restart *program_name*.

IDFS00012A   *program_name*: **Partition start list** *operand_name* **not delimited by parentheses.**

Explanation
The *program_name* program found a syntax error in operand *operand_name* in the DSFS debug parameter data set.

program_name
    The program name.

operand_name
    The operand found to be in error.

System action

The program ends.

Administrator response

Ensure that the operand *operand_name* is delimited by parentheses and restart *program_name*.

IDFS00013I   *program_name*: **Modify complete for** *parameter_name parameter_value*.

Explanation

The *program_name* program has successfully set the value of the program parameter *parameter_name* to *parameter_value*.

program_name
    The program name.

parameter_name
    The parameter name.

parameter_value
    The parameter value.

System action

The program continues.

Administrator response

None.

IDFS00014A   *program_name*: **Incorrect parameter debug record** *record_name* **in data set** *dataset_name*.

Explanation

The *program_name* found a syntax error in ioedebug record *record_name*.

program_name
    The program name.

record_name
    The record in error.

dataset_name
    The data set name.

System action

The program ends.

Administrator response

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

IDFS00015A   *program_name*: **Incorrect parameter** *parameter_name*.

Explanation

The *program_name* found an incorrect parameter *parameter_name* in the DSFS debug parameters data set.

program_name
    The program name.

parameter_name
    The parameter in error.

System action

The program ends.

Administrator response

Specify a valid parameter and restart *program_name*.

IDFS00016E	**program_name: Parameter parameter_name is not valid for modify command command_name.**

Explanation

The specified parameter *parameter_name* is not valid for the *parameter_name* command.

program_name
   The program name.

command_name
   The command in error.

parameter_name
   The parameter in error

System action

The program continues.

Administrator response

Additional information about the syntax of the *command_name* command is found in *z/OS Data Set File System Administration*.

IDFS00017I	**program_name: product_name feature_name Version product_version.product_release.product_modlevel Service Level service_level. Created on creation_date.**

Explanation

This message is issued when the level of DSFS 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 DSFS program.

program_name
   The program name.

product_name
   The product name.

feature_name
   The feature name.

product_version
   The product version.

product_release
   The product release.

product_modlevel
   The product modification level.

service_level
   The product service level.

creation_date
   The date and time the daemon was created.

System action

The program continues.

IDFS00018E	*program_name*: **modify command is not valid - *command_name*.**

Explanation

The syntax of the modify command is not correct.

program_name
> The program name.

command_name
> The command name that is not valid.

System action

The program continues.

Administrator response

Additional information about the syntax of the *command_name* command is found in *z/OS Data Set File System Administration*.

IDFS00019E	*program_name*: **MODIFY command - *command_name* failed.**

Explanation

The MODIFY command failed.

program_name
> The program name.

command_name
> The command name.

System action

The program continues.

Administrator response

Additional information about the syntax of the *command_name* command is found in *z/OS Data Set File System Administration*. Verify that the command was entered with valid parameters. If the problem continues, contact your service representative.

IDFS00020I	*program_name*: **MODIFY command - *command_name* completed successfully.**

Explanation

The MODIFY command was successful.

program_name
> The program name.

command_name
> The command name.

System action

The program continues.

Administrator response

None.

IDFS00033I   **Utility file system *file_name* attached successfully.**

Explanation

Utility file system *file_name* was successfully attached by DSFS.

file_name
    Name of the utility file system.

System action

The program continues.

IDFS00034I   **Detaching utility file system *file_name*.**

Explanation

Utility file system *file_name* is being detached.

file_name
    Name of the utility file system.

System action

The program continues.

IDFS00035I   ***program_name*: Stop command received.**

Explanation

The DSFS kernel has received an operator stop request. The utility file system will be detached and the DSFS kernel will terminate.

program_name
    The DSFS program.

System action

The program continues.

IDFS00036I   **An error occurred in program IDFFSKN.**

Explanation

The DSFS kernel encountered an internal error in program IDFFSKN. The DSFS kernel is being restarted.

program_name
    The DSFS program.

System action

The program continues.

Administrator response:
Contact your service representative.

IDFS00037E   **Error setting up termination thread, code = *error_code*.**

Explanation

An error occurred when the routine used to handle DSFS kernel termination was being defined. The result is that DSFS termination required by either an internal error or a command to shut down DSFS or the OMVS kernel will not function properly.

error_code
    The error code.

System action

The program ends.

Administrator response:
Contact your service representative.

IDFS00038E	Error starting console thread, code = *error_code*.

Explanation

An error occurred during the attempt to start a thread to accept the operator MODIFY command. F DSFS commands will be disabled as a result.

error_code
    The error code.

System action

The program ends.

Administrator response:
Contact your service representative.

IDFS00039I	DSFS kernel: initialization complete.

Explanation:
The DSFS kernel has completed initialization.

System action

The program continues.

IDFS00040I	DSFS kernel program IDFFSKN is ending.

Explanation:
The DSFS kernel program IDFFSKN has completed its termination processing and is about to end. It is normally restarted by the DSFS control program IDFFSCM.

System action

The program continues.

IDFS00041A	DSFS kernel: could not create admin thread, code *error_code*.

Explanation

A DSFS kernel could not create a thread to process administration commands.

error_code
    The error code.

System action

The program ends.

Administrator response

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

IDFS00042I	General Registers *Register_number*: *register_value register_value register_value register_value*

Explanation

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

register_number
    The register number.

register_value
    The value of a register.

register_value
    The value of a register.

register_value
    The value of a register.

register_value
    The value of a register.

System action

The program continues.

Administrator response

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

IDFS00043E	DSFS utility file system *file_name* exceeds %%d%%%% full (%%u/%%u) (WARNING).

Explanation

A DSFS utility file system used space has exceeded the administrator defined threshold specified on the `fsfull` option.

file_name
    Name of the utility file system.

System action

The program continues.

Administrator response

If desired, increase the utility file system size.

IDFS00044I	DSFS utility file system *file_name* is now below %%d%%%% full (%%u/%%u).

Explanation

A DSFS utility file system used space has fallen below the administrator defined threshold specified on the `fsfull` option.

file_name
    The name of the DSFS utility file system.

System action

The program continues.

IDFS00045A	**Signal *signal_type* received, dump in progress.**

Explanation
A DSFS program is abending, and a dump is in progress.

signal_type
    The signal type.

System action

The system ends.

Administrator response

Contact your service representative.

IDFS00046A	**DSFS: PSW from Machine State: *psw_part1 psw_part2* Abend Code from CIB: *abend_code* Reason Code from CIB: *reason_code* Load Module Name: *module_name***

Explanation
Abend information at time of dump.

psw_part1
    First part of PSW.

psw_part2
    Second part of PSW.

abend_code
    Abend code information.

reason_code
    Reason code information.

module_name
    Module name that abended.

System action

The system ends.

Administrator response:
Contact your service representative.

IDFS00047A	**Assertion Failed:*assertion* Line:*line_number* File:*file_name*.**

Explanation
An internal error has occurred in the dsadm program. A dump will be taken.

assertion
    The assertion.

line_number
    The line number.

file_name
    The file name.

System action

The program ends.

Administrator response:
Contact your service representative.

IDFS00048E	**Syntax error string *text_error* on line(s) *starting_line:ending_line* in configuration data set *file_name*.**

Explanation

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

text_error
    The text in error.

starting_line
    The starting line number of the statement in error.

ending_line
    The ending line number of statement in error.

file_name
    The configuration file name.

System action

The program continues.

Administrator response:
Correct the line in error and retry the operation.

IDFS00049E	**The configuration data set *file_name* could not be opened.**

Explanation

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

file_name
    The configuration file name.

System action

The program continues.

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

IDFS00050E	**The parameter, *parameter_name*, requires *string* non-null argument value.**

Explanation

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

parameter_name
    The parameter name.

string
  The string 'a' or 'at least one'.

System action

The system ends.

User response:
Enter the command specifying a value for *string*.

IDFS00051E	**The argument, *argument*, does not represent a valid value for the parameter *parameter_name*.**

Explanation
The value specified for the parameter was not valid.

argument
  The argument.

parameter_name
  The parameter name.

System action

The system ends.

User response:
Enter the command with a valid value for the parameter.

IDFS00052E	**The user is not authorized to run this command.**

Explanation:
This command requires a uid of 0, or READ access to the SUPERUSER.FILESYS.PFSCTL profile in the UNIXPRIV class.

System action

The system ends.

IDFS00054E	**Open error on file(*dataset_name*), errno(*return_code*).**

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

dataset_name
  Data set name pointed to by configuration parameter `msg_input_dsn`.

return_code
  Return code from open.

System action

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

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

IDFS00055E	**Read error on file(*dataset_name*), errno(*return_code*).**

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

dataset_name
>   Data set name pointed to by configuration parameter `msg_input_dsn`.

return_code
>   Return code from open.

System action

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

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

IDFS00056E	**Insufficient storage available.**

Explanation:
An error occurred attempting to allocate storage.

System action

The program continues. Messaging may not occur.

Administrator response:
Check that the task was started with sufficient storage.

IDFS00057E	**Unable to retrieve message text for message ID(*message_number*).**

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

message_number
>   The message number of text that the task was attempting to retrieve.

System action

The program continues. Messaging may not occur.

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

IDFS00058E	**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.

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

IDFS00062E	**Open of utility file system *filesystem_name* failed with rc *return_code*.**

Explanation
In order to quiesce file system *filesystem_name*, it needs to be opened. This operation failed with a return code of *return_code*. Therefore, the utility file system is not quiesced.

filesystem_name
>   The utility file system name.

return_code
> The return code received.

System action

The program continues.

Administrator response:
Use the return code to determine why the open failed. If the return code is EIO (122) then this message is likely preceded by messages that indicate the reason for the disk IO failure. If the return code is EMVSERR (157) then contact IBM service. Correct the problem and try the operation causing the quiesce again.

IDFS00064I	*dataset_name* is the configuration data set currently in use.

Explanation
This message notifies the user of the configuration data set in use.

dataset_name
> The configuration data set name.

System action

The program continues.

Administrator response:
None.

IDFS00065E	Could not open trace output data set.

Explanation:
A DSFS program could not print the in-memory trace table.

System action

The program continues.

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

IDFS00066E	Could not write to trace output data set.

Explanation:
A DSFS program could not print the in-memory trace table.

System action

The program continues.

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

IDFS00069E	DASD volser *volume_serial_name* is offline, utility file system *utility_filename* cannot be mounted.

Explanation
A utility file system was being mounted and DSFS detected that the utility file system is on a DASD volume that is offline.

volume_serial_name
> The DASD volume serial name.

utility_filename
    The utility file system name that was being mounted.

System action

The program continues.

Administrator response:
Ensure the specified DASD volume is online and remount the utility file system.

IDFS00070E	Error *return_code* reason *reason_code* encountered obtaining status on volser *serial_name* for utility file system *utility_file_name*, macro *macro_name*.

Explanation
A utility file system was being attached and DSFS could not obtain information via the *macro_name* macro on the DASD volser shown in the message.

return_code
    The UCBINFO macro return code.

reason_code
    The UCBINFO macro reason code.

serial_name
    The DASD volume serial name.

utility_file_name
    The utility file system name of a prior attached utility file system name.

macro_name
    The macro name.

System action

The program continues.

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

IDFS00071I	Access Registers AR*register_number*: *register_value register_value register_value register_value*

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

register_number
    The register number.

register_value
    The value of a register.

System action

The program continues.

Administrator response:
This message will be followed by additional messages indicating more about the problem. Often, recovery is not a problem.

IDFS00072A	DSFS kernel out of storage, total of *megabytes* bytes used, size attempted was *storage*, class *class_number* type *storage_type*.

Explanation

The DSFS kernel ran out of storage when attempting to obtain *storage* bytes. *megabytes* is the number of bytes that has been obtained by the DSFS kernel. *class_number* and *storage_type* is information for IBM service personnel.

megabytes
    The total number of megabytes used by DSFS.

storage
    The amount of storage that DSFS attempted to obtain.

class_number
    The DSFS kernel sub-component class number.

storage_type
    The storage type of the DSFS kernel.

System action

The program ends.

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

IDFS00076I	*program_name* **Commands are:**

Explanation

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

program_name
    The program name.

System action

The program ends.

IDFS00077I	*program_name* **Unknown topic** *subcommand_name***.**

Explanation

The parameter is not a valid subcommand for this command.

program_name
    The program name.

subcommand_name
    The subcommand name.

System action

The program ends.

User response:
Enter the command again specifying a valid subcommand name.

IDFS00078I	*program_name* **Ambiguous topic** *subcommand_name***; use 'apropos' to list.**

Explanation

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

program_name
>   The program name.

subcommand_name
>   The subcommand name.

System action

The program ends.

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

IDFS00079I   *program_name1*: Type '*program_name2*' for help.

Explanation

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

program_name1
>   The program name.

program_name2
>   The program name.

System action

The program ends.

User response:
Enter the command again with one or more arguments.

IDFS00080I   *program_name1*: Type '*program_name2* help' or '*program_name3* help
                                   -topic <*command_name* ...>' for help.

Explanation

The *program_name1* command suite was entered without the required command name.

program_name1
>   The program name.

program_name2
>   The program name.

program_name3
>   The program name.

System action

The program ends.

User response:
Enter the command suite again specifying an appropriate command name.

IDFS00081I   *status* operation *subcommand_name*; type '*program_name* help' for list.

Explanation

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

status
>   Either the word 'Unknown' or the word 'Ambiguous'.

subcommand_name
    The invalid or ambiguous subcommand.

program_name
    The program name.

System action

The program ends.

User response:
Enter the *program_name* command again specifying a valid, unabbreviated subcommand.

IDFS00082I   ***status* operation *subcommand_name*; type '*program_name* help' for list.**

Explanation
The subcommand *subcommand_name* is either ambiguous or not valid. Commands cannot be abbreviated because multiple subcommands might match the abbreviation. Type *program_name* `-help` for a list of valid subcommands.

status
    Either the word Unknown or the word `Ambiguous`.

subcommand_name
    The invalid or ambiguous subcommand.

program_name
    The program name.

System action

The program ends.

User response:
Enter the *program_name* command again specifying a valid, unabbreviated subcommand.

IDFS00083I   **'*program_name* `-help`'**

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

program_name
    The program name.

System action

The program ends.

User response:
Enter the command again using a valid parameter.

IDFS00084I   **'*program_name subcommand_name* `-help`'**

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

program_name
    The program name.

subcommand_name
    The subcommand name.

System action

The program ends.

User response:
Enter the subcommand with a valid parameter.

IDFS00085I	*program_name* **Too many arguments.**

Explanation

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

program_name
    The program name.

System action

The program ends.

User response:
Enter the command again specifying fewer arguments.

IDFS00086I	*program_name* **Too many values after parameter** *parameter_name***.**

Explanation

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

program_name
    The program name.

parameter_name
    The parameter name.

System action

The program ends.

User response:
Enter the command with only one value for the *parameter_name* parameter.

IDFS00087E	*program_name* **Missing required parameter** *parameter_name***.**

Explanation

A required parameter for this command was not entered.

program_name
    The program name.

parameter_name
    The parameter name.

System action

The program ends.

User response:
Enter the command specifying a value for the required parameter.

IDFS00088I	*program_name status* **switch** *switch_name***; type the following for detailed help.**

Explanation

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

program_name
    The program name.

status
    The word 'Ambiguous' or the word 'Unrecognized'.

switch_name
    The switch name.

System action

The program ends.

User response:
Enter the command with a valid, unabbreviated switch name.

IDFS00089I   **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.

parameter1
    The parameter name.

parameter2
    The parameter name.

System action

The program ends.

User response:
Enter the command with a valid, unabbreviated switch name.

IDFS00090I   **Usage: *program_namesubcommand_name*.**

Explanation

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

program_name
    The program name.

subcommand_name
    The subcommand name.

System action

The program ends.

User response:
None.

IDFS00091E   ***string_type string_error* is longer than the maximum length of *maximum_length*.**

Explanation

The specified string is too long.

string_type
    Type of string.

string_error
  The string in error.
maximum_length
  The maximum length.

System action

The program continues.

Administrator response:
Correct the string in error and retry the operation.

IDFS00093E	Could not set *admin_option* to *new_value*, error code *return_code* reason code *reason_code*.

Explanation
The DSFS kernel encountered an error while attempting to set the configuration option. In the case of the file cache, it could be that the user tried to fix the file cache via the EDCFIXED option past the current 14GB limit for DSFS DMA memory or there is not enough DMA memory on the system to satisfy the request. Message IDFS0093E will indicate which cache spaces could not be fixed in this case and the QUERY,FILECACHE command can be used to determine which cache spaces are fixed. In this latter case the file cache should be the requested size but not all cache spaces will be fixed.

admin_option
  The administration option.
new_value
  The new value.
return_code
  The return code from the DSFS kernel.
reason_code
  The reason code.

System action

The program continues.

Administrator response:
Consult *z/OS Data Set File System Messages and Codes* for the provided reason code, most likely a value was larger than the DSFS-defined maximum or smaller than the DSFS defined minimum for that option. If the command was a **config -filecache_size** command on a system that was using compression or the EDCFIXED option was specified on the command, check the amount of DMA memory available on your system and its usage by other applications and use the QUERY,FILECACHE command to determine which cache spaces are fixed by DSFS.

IDFS00094E	Utility file system *utility_name* failed dynamic grow, (by user *user_ID*).

Explanation
Dynamic growth of the specified utility file system, caused by the actions of the specified user, failed. All subsequent attempts to dynamically grow the utility file system will also fail. This condition can be changed by unmounting and remounting the utility file system. If the system is in a shared file system environment, a DSFS restart is required in order to remount the utility file system.

utility_name
  The utility file system name.
user_ID
  The user ID of the user causing the grow.

System action

The program continues.

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

IDFS00095I	Utility file system *utility_name* successfully dynamically grown (by user *user_ID*).

Explanation

Dynamic growth of the specified utility file system, caused by the actions of the specified user, was successful.

utility_name
> The utility file system name.

user_ID
> The user ID of the user causing the grow.

System action

The program continues.

Administrator response:
None.

IDFS00096I	Dynamic growth of utility file system *utility_name* in progress, (by user *user_ID*).

Explanation

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

utility_name
> The utility file system name.

user_ID
> The user ID of the user causing the grow.

System action

The program continues.

Administrator response:
None.

IDFS00100E	No options have been specified.

Explanation:
A **dsadm** command option has not been specified.

System action

The program ends.

Administrator response:
Specify a valid option for the command and retry.

IDFS00101E	Could not get value for *admin_option*, error code *return_code* reason code *reason_code*.

Explanation
The DSFS kernel encountered an error while attempting to get the value of the configuration option.

admin_option
    The administration option.

return_code
    The return code from the DSFS kernel.

reason_code
    The reason code.

System action

The program ends.

Administrator response:
Correct any problems and retry.

IDFS00103I	**Attempting to extend *utility_name* to *new_size new_size* byte control intervals.**

Explanation
The utility file system is being extended to the indicated size.

utility_name
    The utility file system name.

new_size
    The new size for the data set.

interval_size
    The control interval size of the utility file system.

System action

The program continues.

Administrator response:
None.

IDFS00104I	**Formatting to *interval_size* byte control interval *new_count* for secondary extents of *utility_name*.**

Explanation
The utility file system 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.

interval_size
    The control interval size of the utility file system.

new_count
    The new control interval count for the data set.

utility_name
    The utility file system name.

System action

The program continues.

Administrator response:
None.

IDFS00105E	**Error *return_code* formatting secondary extents for *utility_name*.**

Explanation

The attempt to format one or more secondary extents for the utility file system has failed, the Media Manager return code is shown.

return_code
    The Media Manager return code.

utility_name
    The utility file system name.

System action

The program continues.

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

IDFS00106E	Error *return_code* extending *utility_name*.

Explanation

The attempt to extend the utility file system has failed, the Media Manager return code is shown.

return_code
    The Media Manager return code.

utility_name
    The utility file system name.

System action

The program continues.

Administrator response:
Verify that the data set exists and that the application can write to it, ensure there is enough DASD space on the data sets associated DASD volumes for the data set to be grown.

IDFS00107I	Attempting to extend *utility_name* by a secondary extent.

Explanation

The utility file system is being extended by a secondary extent.

utility_name
    The utility file system name.

System action

The program continues.

Administrator response:
None.

IDFS00108A	File system type *file_type* is incorrect. It must be DSFS.

Explanation

An incorrect type for Data Set File System was specified in the BPXPRMxx FILESYSTYPE statement. This value must be the characters DSFS.

file_type
    The type that is specified in the BPXPRMxx file.

System action

The program ends.

Administrator response:
Update the FILESYSTYPE statement and ensure the TYPE parameter specifies DSFS. For example: TYPE(DSFS).

IDFS00110I	Return code and reason code for dump is *code*.

Explanation

This message shows the return code and reason code returned by SVC dump processing. In some circumstances, a dump can be suppressed by the operating system.

code
  The return code and reason code.

System action

The program continues.

Administrator response:
None.

IDFS00111E	DSFS kernel: non-terminating exception *abend_code* occurred, reason *reason_code* abend psw *first_PSW second_PSW*.

Explanation

A DSFS kernel encountered an exception. A dump will be issued and the internal trace table will be printed. This exception is non-terminating, the DSFS kernel will continue to run, though there may be errors encountered for a given data set. The abend code is *abend_code*, and the psw is given by *first_PSW second_PSW*.

abend_code
  The abend code received.

reason_code
  The reason code received.

first_PSW
  The first word of the abend PSW.

second_PSW
  The second word of the abend PSW.

System action

The program continues.

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

IDFS00112A	DSFS kernel: restarting exception *abend_code* occurred, reason *reason_code* abend psw *first_PSW second_PSW*.

Explanation

The DSFS kernel encountered an exception. A dump will be issued. The DSFS kernel will be stopped and a restart requested from z/OS UNIX. If the restart is successful, the utility file system may be remounted. Files that are currently open may see IO errors. The abend code is *abend_code*, and the psw is given by *first_PSW second_PSW*. If z/OS UNIX cannot restart DSFS, the system will display a BPXF032D message that must be replied to for DSFS to reinitialize.

abend_code
  The abend code received.

reason_code
    The reason code received.

first_PSW
    The first word of the abend PSW.

second_PSW
    The second word of the abend PSW.

System action

The program continues.

Administrator response:
This message will be followed by additional messages indicating more about the problem. Ensure that the utility file system is remounted after DSFS restarts. Contact your service representative.

IDFS00113E	Potential DSFS hang detected. Taking informational dump.

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

System action

The program continues.

Administrator response:
Contact IBM Service personnel, and send the dump. If necessary, stop and restart DSFS.

IDFS00114E	dsadm query *query_name* failed, rc = *return_code*, reason = *reason_code*.

Explanation

The indicated **dsadm query** command failed. The return and reason codes may indicate the cause of the error. If possible correct the error and retry.

query_name
    The query option name.

return_code
    The return code.

reason_code
    The reason code.

System action

The program continues.

Administrator response:
Correct any errors and retry the command.

IDFS00115E	The attempt to create the *daemon_name* daemon failed with return code *return_code*.

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:

daemon_name
    The name of the daemon.

return_code
> The MVS™ attach return code.

System action

The program continues.

Administrator response:
Determine why the thread could not be created by using the return code from the ATTACH macro. Correct the problem and restart DSFS. If the problem persists, contact your service representative.

IDFS00116E	**Insufficient memory to allocate *number_bytes* bytes.**

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

number_bytes
> The number of bytes to be allocated.

System action

The request fails, and DSFS continues operating normally.

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

IDFS00117E	**Error *error_code*, reason *reason_code* received opening parmlib.**

Explanation
An error was received while attempting to open the parmlib. The error code from the IEFPRMLB macro is shown.

error_code
> The error code from the IEFPRMLB macro.

reason_code
> The reason code from the IEFPRMLB macro.

System action

The program continues.

Administrator response:
Ensure the parmlib is accessible to the program and retry the operation.

IDFS00118I	**No IDFZPRM DD specified in *address_space* proc. Parmlib search being used.**

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

address_space
> The address space name.

System action

The program continues.

Administrator response:
None.

IDFS00120E	**Unrecoverable error encountered for inode *inode* uniquifier *uniquifier* representing *dataset_member*.**

Explanation

A fatal error was encountered for an object with inode *inode,* which represents data set *dataset_member.* Future accesses to the data set (or member of the data set) may fail and updates may be lost. One possible cause of this is a member of a PDS that was being accessed by DSFS was deleted while DSFS did not hold the data set ENQs, and the application was still accessing it.

inode
> The inode of object in error.

uniquifier
> The uniquifier of the object in error.

dataset_member
> The data set and member the object represents.

System action

The program continues.

Administrator response:
If the member still exists, contact your service representative.

IDFS00121I	**Recovery statistics for** *utility_name* **elapsed time** *elapsed_time* **ms** *pages* **log pages** *records* **log records,** *data_blocks* **data blocks modified** *redo_data* **redo-data,** *redo_fill* **redo-fill records** *redo_datafill* **undo records,** *blocks* **unwritten blocks.**

Explanation

This message notifies the user that a utility file system underwent recovery. This is normal if the utility file system was not detached cleanly before a stop or an outage of DSFS.

utility_name
> The utility file system name.

elapsed_time
> The elapsed time in msecs.

pages
> The number of pages.

records
> The number of records.

data_blocks
> The number of data blocks.

redo_data
> The number of redo data records.

redo_fill
> The number of redo fill data records.

redo_datafill
> The number of redo data plus fill records.

blocks
> The number of blocks not updated due to reuse.

System action

The program continues.

Administrator response:
None.

IDFS00123I	*program_name* **Option** *option_name* **has been processed. This specification is ignored.**

Explanation

The specified option was already processed. Because this option was either explicitly specified previously or implicitly assumed according to the option omission rules, it is ignored.

program_name
    The program name.

option_name
    The option.

System action

The program ends

Administrator response:
Enter the command with only one value for the option.

IDFS00129E	Syntax error string *text_error* on line(s) *start_line:end_line* in parmlib member(s) *first_suffix:last_suffix*.

Explanation

A syntax error was found while parsing the DSFS parmlib. The line in error is shown as an aid to the administrator.

text_error
    The text in error.

start_line
    The starting line number of the statement in error.

end_line
    The ending line number of the statement in error.

first_suffix
    The first parmlib member suffix.

last_suffix
    The last parmlib member suffix.

System action

The program continues.

Administrator response:
Correct the line in error and retry the operation.

IDFS00130E	Insufficient memory to allocate *num_bytes* bytes.

Explanation

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

num_bytes
    The number of bytes

System action

The request fails, and DSFS continues operating normally.

Administrator response:
Allocate more storage and retry the request.

IDFS00131E	Utility file system *utility_name* disabled.

Explanation

An error was found while processing requests for the specified utility file system. As a result all reads and writes to the utility file system are prevented.

utility_name
    The utility file system name.

System action

DSFS will attempt a restart, and if in a shared file system environment, an automatic re-mount of the utility file system.

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. If the BPXF032D message is issued, reply R to restart DSFS. Then, if the utility file system is not automatically remounted, remount the utility file system. If the utility file system is corrupted, it will automatically be reformatted during the mount. If this condition persists, contact your service representative.

IDFS00134E	**Internal error, utility file system *utility_name* cannot be detached from DSFS.**

Explanation

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

utility_name
    The utility file system name.

System action

DSFS will remain active until it is manually restarted. No utility file system will be able to be mounted or unmounted.

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

IDFS00137E	**Disabling IO to DASD volume *volume_name*.**

Explanation

An internal error has forced DSFS 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.

volume_name
    The name of the DASD volume.

System action

The program continues.

Administrator response:
Contact your service representative.

IDFS00138I	**IO to DASD volume *volume_name* has been enabled.**

Explanation

An internal error had forced DSFS 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.

volume_name
    The name of the DASD volume.

System action

The program continues.

Administrator response:
None.

IDFS00139I	**Starting Query Command *query_name*.**

Explanation

Starting to run a query command.

query_name
    The name of the query being run.

System action

The program continues.

Administrator response:
None.

IDFS00143E	**Error extending *utility_name* DFSMS return code = *return_code*, PDF code = *return_code*.**

Explanation

The attempt to extend the utility file system has failed, the Media Manager return code and PDF code is shown. Refer to message IEC161I.

utility_name
    The utility file system name.

return_code
    The Media Manager return code.

return_code
    The PDF return code.

System action

The program continues.

Administrator response:
Verify that the data set exists and that the application can write to it, ensure there is enough DASD space on the data sets associated DASD volumes for the data set to be grown.

IDFS00145I	**DSFS does not support the stop command. Please issue f omvs,stoppfs=dsfs.**

Explanation:
The stop command is not supported. Please issue the omvs stoppfs command.

System action

The program continues.

Administrator response:
Issue `f omvs,stoppfs=dsfs`.

| **IDFS00146I** | **DSFS has a potentially hanging thread caused by:** *address_list***.** |

Explanation

The DSFS hang detector found a thread that could possibly be hanging.

address_list
    A list of address space IDs and TCB addresses causing the hang.

System action

The program continues.

Administrator response:
Monitor the potential hang. You can issue F DSFS,QUERY,THREADS to see the thread states. If the problem persists, try canceling the listed address space IDs. If the problem persists, contact your service representative.

| **IDFS00148E** | **Media Manager return code** *error_code* **for utility file system** *utility_name***.** |

Explanation

Media Manager return code was nonzero for the specified utility file system.

error_code
    The hexadecimal error code from the Media Manager request.

utility_name
    The utility file system name.

System action

The program continues.

Administrator response:
Look up the error in the Media Manager return codes section of *z/OS DFSMSdfp Diagnosis Reference*.

| **IDFS00149E** | **DSFS I/O timed out for utility file system** *utility_name***.** |

Explanation

A physical I/O error occurred due to the IO needed to attach utility file system *utility_name* taking more than 4 minutes to complete.

utility_name
    The utility file system name.

System action

The program continues.

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.

| **IDFS00150E** | **Utility file system ran out of space.** |

Explanation:
The utility file system ran out of space. DSFS will attempt to dynamically grow the utility file system. This message will appear at most once every ten minutes.

System action

The program continues.

Administrator response:
Ensure that there is sufficient space in the utility file system.

IDFS00151E	dsadm command failed, rc = *return_code*, reason = *reason_code*.

Explanation

The indicated **dsadm query** command failed. The return and reason codes may indicate the cause of the error. If possible correct the error and retry.

return_code
    The return code.

reason_code
    The reason code.

System action

The program continues.

Administrator response:
Correct any errors and retry the command.

IDFS00152E	An internal error occurred waiting for retry of a user task dump for asid *address_space*.

Explanation

DSFS attempted to take a dump of a user task in the address space mentioned. This dump failed for some reason, possibly due to the address space taking another dump or some other reason. In an attempt to get a dump, DSFS retries the SDUMPX call on a DSFS task. An internal error occurred attempting to wait for the DSFS task to complete. So, the dump may not be finished before the user task completes its DSFS request. Therefore, the dump may not prove to be useful in resolving the reason for dumping in the first place. At any rate, IBM service should be contacted.

address_space
    The ID of the user task address space.

System action

The program continues.

Administrator response:
Contact IBM service.

IDFS00153I	*program_name*: Initializing *product_name feature_name* Version *product_version.product release.mod_level* Service Level *service level*. Created on *time_created*. Address space asid *asid*.

Explanation

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

program_name
    The program name.

product_name
    The product name.

feature_name
    The feature name.

product_version
    The product version.

product release
    The product release.

mod_level
    The modification level.

service level
    The service level.

time_created
    The date and time the DSFS program was created.

asid
    The asid of the address space.

System action

The program continues.

Administrator response

None.

IDFS00156E	The DSFS utility file system is quiesced.

Explanation:
The utility file system is quiesced. A quiesced utility file system can cause delays or slow performance for some tasks. This informational message is a debug aid only. When the utility file system is quiesced, this message will appear on the console highlighted. When the utility file system is no longer quiesced, the message will not be highlighted. Every 30 seconds a thread wakes up and determines whether the utility file system is quiesced. If it is, the thread will make sure that this message is on the console. If the message is already on the console, the message will not be displayed a second time. If the utility file system is not quiesced and the message is on the screen, the message will no longer be highlighted. If the utility file system is quiesced and unquiesced within the 30 second sleep window of the thread, then no message will be displayed. This message is intended to provide information that can be used to take action if there is a perceived slow down in DSFS response time.

System action

The program continues.

Administrator response:
Determine if the utility file system should be unquiesced.

IDFS00158E	Utility file system *utility_name* failed to reopen.

Explanation
The utility file system failed to reopen locally, possibly due to a DASD outage, some other connectivity difficulties to the DASD, or a hardware failure. This can also happen if the utility file system is encrypted and there is an ICSF problem, DSFS will not be able to process any operations.

utility_name
    Name of the utility file system.

System action

The program continues.

Administrator response:
If the utility file system is encrypted and there is an ICSF problem, follow diagnostic procedures in *z/OS Cryptographic Services ICSF System Programmer's Guide*. Otherwise, unmount and remount the utility file system or restart DSFS if in a shared file system environment.

IDFS00159I   **Task asid=***asid* **tcb=***TCB_address* **is delayed outside DSFS while** *action*.

Explanation

The specified task running in DSFS 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 DSFS for at least 3 intervals of the hang detector.

asid
>   Asid of task.

TCB_address
>   TCB address of task.

action
>   Action phrase and object of action.

System action

The program continues.

Administrator Response

Try to correct the problem by following documented troubleshooting procedures for the specified operation. If the IDFS00159I message remains on the screen, complete the steps in Steps for diagnosing and resolving DSFS hangs in *z/OS Data Set File System Administration*.

Table 1. Troubleshooting hits for specified operations

Action_object	See
Altering data set name	*z/OS DFSMSdfp Advanced Services* and *z/OS DFSMS Access Method Services Commands*.
Calling catalog search interface	*z/OS DFSMS Managing Catalogs*.
Closing dataset	• Using VERIFY to process improperly closed data sets in *z/OS DFSMS Using Data Sets*. • Recovering from errors due to an improperly closed VSAM data set in *z/OS DFSMS Using Data Sets*. • Checking for problems in catalogs and data sets in *z/OS DFSMS Using Data Sets*.
Dequeuing	*z/OS MVS Planning: Global Resource Serialization*.
Growing dataset	*z/OS DFSMShsm Diagnosis* or *z/OS DFSMShsm Managing Your Own Data*.
Locating dataset	Checking for problems in catalogs and data sets in *z/OS DFSMS Using Data Sets*.
Opening dataset	Opening a data set in *z/OS DFSMS Using Data Sets*.
Recalling dataset	*z/OS DFSMShsm Storage Administration* and *z/OS DFSMShsm Managing Your Own Data*.
Updating high used relative byte address (HURBA)	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	*z/OS DFSMS Using Data Sets*.
Allocating data set	If you are dumping the DSFS address space, also dump the ALLOCAS address space.

Table 1. Troubleshooting hits for specified operations (continued)

Action_object	See
Unallocating	If you are dumping the DSFS address space, also dump the ALLOCAS address space.
Getting member list for	For more information about data sets, see *z/OS DFSMS Using Data Sets* and z/OS DFSMS Access Method Services Commands.
Getting statistics for	For more information about data sets, see *z/OS DFSMS Using Data Sets* .
Getting RESERVE for	For more information about the RESERVE macro, see RESERVE description in *z/OS MVS Programming: Authorized Assembler Services Reference LLA-SDU*. For more information about the UCBLOCK macro, see UCBLOCK description in *z/OS MVS Programming: Authorized Assembler Services Reference SET-WTO*.
Releasing RESERVE for	For more information about the DEQ macro, see DEQ description in *z/OS MVS Programming: Authorized Assembler Services Reference ALE-DYN*.
Finding out if PDSE contains loadmod	For more information about data sets, see *z/OS DFSMS Using Data Sets*.
Finding out if PDS contains loadmod	For more information about data sets, see *z/OS DFSMS Using Data Sets*.
Reading data set	For more information about data sets, see *z/OS DFSMS Using Data Sets*.
Writing data set	For more information about data sets, see *z/OS DFSMS Using Data Sets*.
Checking ds authorization for	Waits troubleshooting table in *z/OS Security Server RACF Diagnosis Guide*.
Deleting	For more information about data sets, see *z/OS DFSMS Using Data Sets*.

IDFS00160I	**Task asid=*asid* tcb=*TCB_address* appears to be delayed.**

Explanation
The specified user task running in DSFS has been running for at least three intervals of the hang detector. There can be many reasons for this behavior which 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 DSFS has called another system service (not covered in message IDFS00159I) and it has not returned.

asid
    Asid of task.

TCB_address
    TCB address of task.

System action

The program continues.

Administrator response:
Try to determine if there is a problem by following documented troubleshooting procedures.

IDFS00161I	**Mounting utility file system *filesystem_name* is delayed, SMS is not active.**

Explanation

The Storage Management Subsystem is not active. DSFS will wait for up to one minute for SMS to become active then the mount will fail if SMS is still not active.

filesystem_name
    The name of the utility file system being mounted.

System action

The program continues.

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.

IDFS00162A	Error *error_code* initializing the DSFS kernel control program.

Explanation

The DSFS kernel control program IDFFSCM encountered an unexpected error during initialization.

error_code
    The error code for the initialization failure.

System action

The program continues.

Administrator response:
Contact IBM service.

IDFS00164I	There is *number* task(s) delayed outside DSFS while *action*.

Explanation

The specified number of task(s) running in DSFS has called a system service to perform an operation. The operation is, for example, enqueue waiting for the specified data set. This operation has not returned to DSFS for at least 3 intervals of the hang detector.

number
    The number of tasks.

action
    Action phrase and object of action.

System action

The program continues.

Administrator response:
Try to correct the problem by following documented troubleshooting procedures for the operation specified.

IDFS00165I	DSFS is low on storage.

Explanation:
DSFS has determined that less than 40MB of storage is remaining in the address space. While in this condition, storage obtains for things associated with the creation of vnodes will be failed.

System action

The program continues.

Administrator response:
Get a storage report via F DSFS,QUERY,STORAGE,DETAILS in order to determine where unnecessary storage is being used. Take steps to limit the storage being used by that area, and perhaps even restart DSFS if

necessary to get back to a more stable environment. See other diagnostic procedures in *z/OS Data Set File System Administration*. Continue to monitor the situation, and if uncontrollable or unacceptable, then get dumps with both OMVS and DSFS address spaces and call IBM Service.

IDFS00166I	DSFS is critically low on storage.

Explanation:
DSFS has determined that less than 20MB of storage is remaining in the address space. While in this condition, all DSFS storage obtains will be failed.

System action

The program continues.

Administrator response:
Get a storage report via F DSFS,QUERY,STORAGE,DETAILS in order to determine where unnecessary storage is being used. Take steps to limit the storage being used by that area, and perhaps even restart DSFS if necessary to get back to a more stable environment. See other diagnostic procedures in *z/OS Data Set File System Administration*. Continue to monitor the situation, and if uncontrollable or unacceptable, then get dumps with both OMVS and DSFS address spaces and call IBM Service.

IDFS00167E	Space monitoring initialization for *name* has failed.

Explanation
DSFS either had an internal error or a lack of storage which was detected when attempting to initialize the necessary environment for space monitoring.

name
    The utility file system name.

System action

The program continues.

Administrator response

None.

IDFS00168I	DSFS suppressing a dump for an error condition.

Explanation:
DSFS has encountered an error condition that would normally cause a system dump to be taken. However, DSFS 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.

Administrator response:
Ensure that a DSFS dump is produced automatically. If one is not, then follow troubleshooting procedures.

IDFS00169I	Starting FSINFO command.

Explanation:
The FSINFO command is now processing. There will be an IDFS00260I message indicating that the display from this modify command is completed.

System action

The program continues.

Administrator response

None.

IDFS00171E   **Utility file system *utility_name* has reached the maximum architected size.**

Explanation

The specified utility file system has reached the maximum architected size and can no longer be grown. The maximum architected size is approximately 16 TB.

utility_name
    The name of the utility file name.

System action

The program continues.

Administrator response:
The maximum size has been reached. There is no action that can be taken to get any more space in the utility file system.

IDFS00172E   **Utility file system *utility_filename* is disabled for writing.**

Explanation

The specified utility file system is disabled for writing. Utility file systems in this state cannot be salvaged until DSFS is restarted.

utility_filename
    The name of the utility file name.

System action

Salvage operation terminates and a DSFS restarted is attempted. When the utility file system is remounted, a salvage will be attempted. The utility file system may be still usable, or else it will be reformatted.

Administrator response:
Ensure that DSFS is restarted and that the utility file system is remounted.

IDFS00173E   **Could not read 8K page *block_number* from utility file system *utility_filename*.**

Explanation

An error occurred that prevented the online salvage program from reading the specified block number. This means that the utility file system is damaged. DSFS will be restarted, and when the utility file system is remounted, it may be salvaged again, and it may be reformatted.

block_number
    The block number.
utility_filename
    The name of the utility file name.

System action

Salvage operation terminates DSFS, and a restart is attempted.

Administrator response:
If the problem is due to I/O error, DSFS will issue additional messages, the administrator will need to correct the I/O errors with the device before proceeding.

IDFS00174E   **Errors encountered verifying AFL on utility file system *utility_filename*.**

Explanation

An error occurred verifying the AFL (file system list for the utility file system) on the utility file system. This means that the utility file system is damaged. This message is intended for IBM service personnel and is preceded by messages that indicate what errors occurred while verifying the AFL.

utility_filename
    The name of the utility file name.

System action

Salvage operation terminates DSFS, and a restart is attempted. When the utility file system is remounted, it will be reformatted.

System action:
Ensure DSFS is restarted and utility file system remounted.

IDFS00175E	Corruption: *corruption_text*.

Explanation

A corruption was found on the utility file system. The provided text is intended for IBM service. Additional messages will indicate the action taken by the salvage program, for example, whether the salvage program will continue or not based on the severity of the error.

corruption_text
    Text information describing the corruption.

System action

Salvage operation terminates DSFS, and a restart is attempted. When the utility file system is remounted, it will be reformatted.

Administrator response:
Ensure that DSFS is restarted and the utility file system is remounted.

IDFS00176E	Expected: *expected_value*

Explanation

A corruption was found on the utility file system. This message was preceded by a message showing the corrupted values in a region of the utility file system. This message shows the expected values in the specified region of the utility file system. This message is intended for IBM service. Additional messages will follow which will indicate the action taken by the salvage utility.

corruption_value
    Text information describing the expected value.

System action

Salvage operation continues.

Administrator response:
Ensure that DSFS is restarted and the utility file system is remounted.

IDFS00177I	Formatted *vversion_number* utility file system size *formatted_size* 8K blocks, data set size *VSAM_size* 8K blocks.

Explanation

This message displays the utility file system version, formatted size, in 8 K blocks, of the utility file system (the amount that the DSFS format utility has formatted) and the current initialized (used) size of the data set that contains the DSFS utility file system.

version_number
> The utility file system version number.

formatted_size
> The formatted size.

VSAM_size
> The size of the VSAM data set.

System action

Salvage operation continues.

Administrator response:
Examine subsequent messages provided by the salvage utility to determine if action is required.

IDFS00179I	Log file size *logfile_size* 8K blocks, verified correct.

Explanation
The logfile was found to be correct during a utility file system salvage operation.

logfile_size
> The size of the log file in 8K blocks.

System action

The system continues.

Administrator response

None.

IDFS00180E	Log file on utility file system *utility_filename* is corrupted.

Explanation
The log file on the utility file system has severe corruption, the salvage operation cannot be completed and the utility file system is marked damaged.

utility_filename
> The name of the utility file system.

System action:
Salvage operation ends and DSFS is restarted. When the utility file system is remounted, it will be reformatted.

Administrator response:
Ensure that DSFS is restarted and the utility file system is remounted.

IDFS00181I	Bitmap size *bitmap_size* 8K blocks, verified correct.

Explanation
The bitmap was found to be correct during a utility file system salvage operation.

bitmap_size
> The size of the bitmap in 8K blocks.

System action

The program continues.

Administrator response

None.

IDFS00182E **Bitmap on utility file system *utility_filename* is corrupted.**

Explanation

The block allocation bitmap on the utility file system has severe corruption, the salvage operation cannot be completed and the utility file system is marked damaged. This message is intended for IBM service personnel and is preceded by messages that indicate what errors occurred while verifying the bitmap structure.

utility_filename
    Name of the utility file system.

System action

Salvage operation ends and DSFS is restarted. When the utility file system is remounted, it will be reformatted.

Administrator response:
Ensure that DSFS is restarted and the utility file system is remounted.

IDFS00183I **Utility file system was successfully verified.**

Explanation:
A utility file system was successfully verified by the **dsadm salvage** command.

System action

The program ends.

Administrator response

None.

IDFS00184E **Could not salvage utility file system because it could not be found.**

Explanation:
The utility file system either does not exist, cannot be accessed or is not a DSFS utility file system.

System action

The program ends.

Administrator response:
Check the DSFS utility file system and try the operation again.

IDFS00185E **Error *error_code* reason code *reason_code* received salvaging the utility file system.**

Explanation

A utility file system could not be salvaged due to an unexpected error, or possibly the utility file system was busy with another command or operation.

error_code
    The error code received

reason_code
    The reason code received

System action

Salvage operation ends.

Administrator response:
If there are no other commands or operations running against the utility file system, and the problem continues, contact your service representative.

IDFS00188I   **DSFS is low on recovery tasks.**

Explanation:
DSFS has determined that 80%, or more, of the recovery tasks in the address space are actively performing recovery actions.

System action

The program continues.

Administrator response:
A large number of DSFS 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 DSFS to properly perform its operations. You should begin looking for the cause of all these cancel actions.

IDFS00189I   **DSFS is critically low on recovery tasks.**

Explanation:
DSFS has determined that 95%, or more, of the recovery tasks in the address space are actively performing recovery actions.

System action

The program continues.

Administrator response:
A large number of DSFS 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 DSFS to properly perform its operations. You should begin looking for the cause of all these cancel actions.

IDFS00190I   **Primary file system size *filesystem_size* 8K blocks, verified correct.**

Explanation
The primary file system was found to be correct during a utility file system salvage operation.

filesystem_size
    The size of the primary file system in 8K blocks.

System action

The program continues.

Administrator response

None.

IDFS00191E   **Primary file system on utility file system *utility_filename* is corrupted.**

Explanation
The primary file system is corrupted. There may be other messages describing the corruption. DSFS will attempt a restart to remount the utility file system and reformat it.

utility_filename
    The name of the utility file system.

System action

Salvage operation ends and DSFS is restarted. When the utility file system is remounted, it will be reformatted.

Administrator response:

Ensure that DSFS is restarted and the utility file system is remounted.

IDFS00197I	Verification of utility file system *utility_filename* started.

Explanation

Indicates that salvage started verifying a utility file system with displayed utility file system name.

utility_filename
    The name of the utility file system.

System action

The program continues.

Administrator response

None.

IDFS00198I	Verification of utility file system *utility_filename* completed, no errors found.

Explanation

Indicates that salvage completed verifying the specified utility file system name and there is no error found with the utility file system during the salvage run.

utility_filename
    The name of the utility file system.

System action

The program ends.

Administrator response

None.

IDFS00200I	Verification of utility file system *utility_filename* completed and the utility file system is in error.

Explanation

Indicates that salvage completed verifying the specified utility file system name. Some errors were found with the utility file system during the salvage run.

utility_filename
    The name of the utility file system.

System action

Salvage operation ends and DSFS is restarted. When the utility file system is remounted, it will be reformatted.

Administrator response:
Ensure that DSFS is restarted and utility file system remounted.

IDFS00201I	Verification of utility file system *utility_filename* stopped with return code *return_code* due to major error(s).

Explanation

Salvager encountered one of the following errors during verification and could not continue on. The return code is *return_code*.

EIO(122) - Salvager could not read or write the DASD.
ENOMEM(132) - Salvager ran out of storage.
EMVSERR(157) - Salvager had an internal error.

utility_filename
> The name of the utility file system.

return_code
> The return code.

System action

Salvage operation ends and DSFS is restarted. When the utility file system is remounted, it will be reformatted.

Administrator response:
Ensure that DSFS is restarted and utility file system remounted.

IDFS00202I	Salvage found *number_errors* minor errors in utility file system *utility_filename*.

Explanation
Errors were found during the salvage run. The utility file system name is displayed in the message.

number_errors
> The name of the utility file system.

utility_filename
> The name of the utility file system.

System action

The program ends.

Administrator response

None.

IDFS00203I	DSFS kernel initiated at *time_created* Current status: *current_status*.

Explanation
This message is a response to the QUERY,STATUS modify command. It shows the time the DSFS address space was started and its current operational status.

time_created
> The time when the DSFS address space was created.

current_status
> The current status of DSFS (initializing, shutting down, aborting, active).

System action

The program continues.

Administrator response

None.

IDFS00204I	Salvage processed *directory_pages* directory pages, *number_anodes* anodes, *number_ibs* indirect blocks and *anode_pages* anode table pages.

Explanation

During the salvage run, there are displayed numbers of directory pages, anodes, indirect blocks and anode table pages being processed.

directory_pages
    The number of directory pages.

number_anodes
    The number of anodes.

number_ibs
    The number of indirect blocks.

anode_pages
    The number of anode table pages.

System action

The program continues.

Administrator response

None.

IDFS00206E	**Time limit exceeded for recovery of in-progress operations for filesystem *filesystem_name*.**

Explanation

DSFS has taken a terminating exception, and the DSFS kernel program IDFFSKN has waited 5 minutes for in-progress user file operations to recover before proceeding with IDFFSKN termination. Since recovery was not performed within the 5 minute window then IDFFSKN termination will proceed and DSFS will stop and be restarted by z/OS UNIX.

filesystem_name
    The name of the file system.

System action

The program continues.

Administrator response

None.

IDFS00212E	**Verification of utility file system terminated because error limit *max_errors* exceeded.**

Explanation

Indicates salvage encountered too many errors.

max_errors
    The error limit.

System action

Salvage operation ends and DSFS is restarted. When the utility file system is remounted, it will be reformatted.

Administrator response:
Ensure that DSFS is restarted and the utility file system remounted.

IDFS00222A	**Restarting exception *abend_code* occurred, reason *reason_code* abend psw <*high_first low_first*>< *high_second low_second*>**

Explanation

A DSFS program encountered an exception running in AMODE64. A dump will be issued. DSFS will be automatically stopped and restarted. Files that are currently mounted may see IO errors. During the DSFS restart, the system may display a BPXF032D message that must be replied to for DSFS to reinitialize.

abend_code
    The z/OS abend code received.

reason_code
    The z/OS reason code received.

high_first
    The high half of the first doubleword of the abend PSW.

low_first
    The high low of the first doubleword of the abend PSW.

high_second
    The high half of the second doubleword of the abend PSW.

low_second
    The low half of the second doubleword of the abend PSW.

System action

The program continues.

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

IDFS00223I	**General Registers** *register_number*: *<high_first low_first ><high_second low_second>< high_third low_third>< high_fourth low_fourth>*

Explanation

A DSFS program running in AMODE64 encountered an exception. This message shows the 64-bit registers at time of error.

register_number
    The register number.

high_first
    The high half of a 64-bit register.

low_first
    The high half of a 64-bit register.

high_second
    The high half of a 64-bit register.

low_second
    The low half of a 64-bit register.

high_third
    The high half of a 64-bit register.

low_third
    The low half of a 64-bit register.

high_fourth
    The high half of a 64-bit register.

low_fourth
    The low half of a 64-bit register.

System action

The program continues.

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

IDFS00224A	DSFS kernel out of storage above bar, total of *<high_megabytes,, low_megabytes>* bytes used, size attempted was *<high_storage,, low_storage>*, class *class_number* type *storage_type*.

Explanation

The DSFS kernel ran out of storage above the 2G bar when attempting to obtain *high_storage,,low_storage*. *high_megabytes,, low_megabytes* is the number of bytes that has been obtained and assigned by the DSFS kernel above the bar already. *class_number* and *storage_type* is information for IBM service personnel.

high_megabytes
    The high half of the total number of megabytes used by DSFS.

low_megabytes
    The low half of the total number of megabytes used by DSFS.

high_storage
    The high half of amount of storage that DSFS attempted to obtain.

low_storage
    The low half of amount of storage that DSFS attempted to obtain.

class_number
    The class number of the DSFS kernel subcomponent.

storage_type
    The storage type of the DSFS kernel.

System action

The program ends.

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

IDFS00227I	Salvage has verified *objects_processed* of *number_objects object_description* in the *filesystem_description*.

Explanation

During the salvage run, this indicates approximate progress on how many items in the described file system object have been verified.

objects_processed
    The number of objects that were processed.

number_objects
    The number of objects in the file system structure.

object_description
    The description of the object.

filesystem_description
    The description of the file system structure being verified.

System action

The program continues.

Administrator response

None.

IDFS00228E	Utility file system *utility_filename* is damaged.

Explanation

During the salvage run, the utility file system was found to be damaged.

utility_filename
> The utility file system name.

System action

The program continues.

Administrator response:
Mount will reformat the corrupted utility file system.

IDFS00229E	Non-terminating exception *abend_code* occurred, reason *reason_code* abend psw <*high_first low_first*>< *high_second low_second*>

Explanation

A DSFS kernel subroutine encountered an exception running AMODE64. A dump will be issued. This exception is non-terminating, the DSFS kernel will continue to run, though there may be errors encountered for a given file or utility file system.

abend_code
> The z/OS abend code received.

reason_code
> The z/OS reason code received.

high_first
> The high half of the first doubleword of the abend PSW.

low_first
> The low half of the first doubleword of the abend PSW.

high_second
> The high half of the second doubleword of the abend PSW.

low_second
> The low half of the second doubleword of the abend PSW.

System action

The program continues.

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

IDFS00231I	Utility file system *utility_filename* was not unmounted cleanly. Last update time stamp=*time_stamp* sysname=*system_name*.

Explanation

At the beginning of the salvager run, the utility file system 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.

utility_filename
> The utility file system name.

time_stamp
> The time stamp.

system_name
    The system name.

System action

The program continues.

Administrator response

None.

IDFS00233E	Failed to prepend the current working directory, error=*error_code* reason=*reason_code*.

Explanation
Either BPX1GCW failed to return the current working directory or the length of the full directory names exceeds 1024.

error_code
    The error code.

reason_code
    The reason code.

System action

The program ends.

Administrator response

None.

IDFS00234E	Failed to get information for directory *directory_name*, error=*error_code* reason=*reason_code*.

Explanation
Failed to get information for the specified object.

directory_name
    The directory name.

error_code
    The error code.

reason_code
    The reason code.

System action

The program ends.

Administrator response:
Correct the error and retry the command.

IDFS00235I	Skip page *logical page* (physical page *physical_page*) of directory (index=*index_number*).

Explanation
The indicated directory page was too corrupted to continue and salvager will skip processing the rest of entries and move on to the next directory page.

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.

Administrator response

None.

IDFS00236I	Found more than *max_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, salvager will suspend duplicate name checking for any additional entries found in the same directory.

max_entries
> The maximum number of entries allowed in duplicate name checking

index_number
> The index number of the directory.

System action

The program continues.

Administrator response

None.

IDFS00238E	Failed to get file system information for utility file system, error=*error_code* reason=*reason_code*.

Explanation
An error occurred while trying to get information for the specified utility file system. 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*, for a description of the reason code.

error_code
> The error code.

reason_code
> The reason code.

System action

The program ends.

Administrator response:
Correct the error and try again.

IDFS00239I	In a wait to verify that utility file system *utility_filename* has no other writers. Member *member_namesysplex_name* last wrote to the utility file system on *time*.

Explanation

When a utility file system is cleanly unmounted, DSFS can quickly determine that there are no other members writing to the utility file system. This utility file system was not cleanly unmounted and DSFS needs to wait 65 seconds to verify that there are no other members writing to the utility file system.

utility_filename
    Name of the utility file system.

member_name
    The member name.

sysplex_name
    The sysplex name or is not passed.

time
    The time of the last recorded block zero write of the utility file system.

System action

The program continues.

Administrator response

None.

IDFS00240E	Dynamic allocation error occurred for data set *dataset_name*. rc=*return_code* err=*return_error* info=*return_info* SMSreason=*return_reason* func=*function_code*.

Explanation

A dynamic allocation error occurred while processing the specified data set. *return_code*, *return_error*, *return_info* and *return_reason* are the error codes supplied by dynamic allocation. *Function_code* describes the dynamic allocation function attempted. Retcode=450 indicates concurrent allocations exceeded the system limit. If no extended TIOT is requested, the limit is determined by the TIOT size. TIOT size is specified in the ALLOCxx member of PARMLIB, or by system default. If extended TIOT is requested, there is no limit (extended TIOT is specified in the DEVSUPxx member of PARMLIB via NON_VSAM_XTIOT=YES option).

dataset_name
    The data set name.

return_code
    The return code.

return_error
    The return error.

return_info
    The return information.

return_reason
    The return reason.

function_code
    The function code.

System action

The program continues.

Administrator response:

Use the dynamic error codes to determine the reason for the failure. Correct the error and retry the operation.

IDFS00242E	*program_name*: **MODIFY command -** *command_name* **rejected: rc = EBUSY.**

Explanation
The same MODIFY command is being processed or all DSFS modify command threads are busy processing a long running MODIFY command, or DSFS is being shut down.

program_name
> The program name.

command_name
> The command name.

System action

The program continues.

Administrator response:
If DSFS is shutting down, then reissue the command after it is restarted. Otherwise, reissue the command after one of the other MODIFY commands is completed.

IDFS00243E	*program_name*: **MODIFY command -** *command_name* **failed: rc = *return_code*.**

Explanation
An error occurred while attempting a console command.

program_name
> The program name.

command_name
> The command name.

return_code
> The return code.

System action

The program continues.

Administrator response:
Check the meaning of the return code and respond accordingly.

IDFS00244E	**Utility file system *filesystem_name* has been quiesced for at least *min_seconds* seconds by operation *operation*. It was quiesced by *quiesce_cause* at *quiesce_time* (GMT).**

Explanation
The utility file system is quiesced and there is at least one task waiting to access it. Access will be allowed when the utility file system is unquiesced.

filesystem_name
> The utility file system name.

min_seconds
> The minimum number of seconds a utility file system must be quiesced before it can appear in this message.

operation
> The name of the operation causing the quiesce.

quiesce_cause
> Either the asid and job causing the quiesce or an indication that DSFS is causing the quiesce.

quiesce_time
> Time of the quiesce.

System action

The program continues.

Administrator response:
If the condition persists, contact your service representative.

IDFS00248I	*program_name*: **MODIFY command -** *command* **accepted.**

Explanation
The MODIFY command *command* has been accepted.

program_name
> The program name.

command
> The command name.

System action

The program continues.

Administrator response

None.

IDFS00255E	**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.

error_code
> The error code.

reason_code
> The reason code.

System action

The program continues.

Administrator response:
Correct the error and retry.

IDFS00256E	**Invalid option** *option***.**

Explanation
Bad option is specified for FSINFO command.

option
> The bad option.

System action

The program continues.

Administrator response:
Correct the error and retry.

IDFS00260I	FSINFO command done.

Explanation:
The FSINFO command completed processing.

System action

The program continues.

Administrator response

None.

IDFS00261I	File System Status:

Explanation:
Indicates that the information following the message is the status of the DSFS utility file system and the statistics for it are displayed. There will be an IDFS00260I message indicating that the display from this MODIFY command is completed.

System action

The program continues.

Administrator response

None.

IDFS00262I	Processing zlc for *filesystem_name*.

Explanation
The specified utility file system is being mounted. There are files in it which were marked as deleted while the utility file system was last being used. Those files had not yet been removed from disk. These files are now being removed from disk. This is normal zero link count (zlc) processing.

filesystem_name
    The utility file system being attached.

System action

The program continues.

Administrator response

None.

IDFS00263I	There are no free 8K blocks remaining in utility file system *utility_filename*. Applications may fail.

Explanation
Applications may be failing because there are no free 8K blocks in the utility file system. The utility file system must be grown or applications may continue to fail.

utility_filename
    The utility file system name.

System action

The program continues.

Administrator response:

Determine why the utility file system does not dynamically grow. If in a shared file system environment, restart DSFS to get the utility file system to automatically remount. Otherwise, unmount and remount the utility file system.

IDFS00264I	**Salvage for utility file system was successfully canceled.**

Explanation:
An online salvage for the utility file system was successfully canceled.

System action

Salvage operation ends.

Administrator response

None.

IDFS00269I	**Salvage for utility file system *utility_filename* has been interrupted.**

Explanation
The salvage for utility file system has been interrupted by a **dsadm salvage -cancel** command or by an unmount.

utility_filename
    The utility file system name.

.

System action

The program continues.

Administrator response

None.

IDFS00271E	**The request cannot be satisfied because the DSFS kernel is not active.**

Explanation:
The **dsadm** command fails because the DSFS kernel is not active.

System action

The program ends.

Administrator response:
Activate the DSFS kernel and try the command again.

IDFS00272E	**The request cannot be satisfied because the IDFFSPRM value for *parameter_name* could not be retrieved from the DSFS kernel.**

Explanation
The value for the specified IDFFSPRM parameter could not be retrieved.

parameter_name
    The IDFFSPRM name.

System action

The program ends.

Administrator response:

Determine why the value cannot be retrieved and try the command again.

IDFS00273E	*program_name*: **could not open trace output file** *trace_filename*.

Explanation
The in-memory trace table could not be printed because the output UNIX trace file could not be opened.

program_name
> Name of the DSFS program.

trace_filename
> The trace file name.

System action

The program continues.

Administrator response:
Retry the **dsadm** command with a valid UNIX trace file name that can be opened for output.

IDFS00274E	**Message id** *message_ID* **not found.**

Explanation
DSFS attempted to issue a message and the message could not be found.

message_ID
> The ID of the message that DSFS attempted to issue.

System action

The program continues.

Administrator response:
Contact your service representative.

IDFS00279A	**Terminating exception** *abend_code* **occurred, reason** *return_code* **abend psw** *first_word second_word*

Explanation
A DSFS kernel sub-routine encountered an exception. A dump will be issued. Severe problems encountered during initialization will result in the termination of DSFS and the system will display a BPXF032D message that must be replied to for DSFS to reinitialize.

abend_code
> The z/OS abend code received.

return_code
> The z/OS reason code received.

first_word
> First word of the abend PSW.

second_word
> Second word of the abend PSW.

System action

The program continues.

Administrator response:
This message may be preceded by messages indicating more about the problem. This message will be followed by additional messages indicating more about the problem. Contact your service representative.

IDFS00280A	Terminating exception *abend_code* occurred, reason *reason_code* abend psw *<first_high first_low> <second_high second_low>*

Explanation

A DSFS kernel sub-routine encountered an exception running in AMODE64. A dump will be issued. Severe problems encountered during initialization will result in the termination of DSFS and the system will display a BPXF032D message that must be replied to for DSFS to reinitialize.

abend_code
>   The z/OS abend code received.

reason_code
>   The z/OS reason code received.

first_high
>   High half of the first doubleword of the abend PSW.

first_low
>   Low half of the first doubleword of the abend PSW.

second_high
>   High half of the second doubleword of the abend PSW.

second_low
>   Low half of the second doubleword of the abend PSW.

System action

The program continues.

Administrator response:

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

IDFS00281E	*program_name*: MODIFY command - *command_name* has been rejected.

Explanation

The MODIFY command *command_name* has been rejected.

program_name
>   The program name.

command_name
>   The command name.

System action

The program continues.

Administrator response:

The *command_name* command cannot be processed until the DSFS kernel has completed initialization. Retry the command after initialization completes. If initialization does not complete, DSFS may need to be canceled. An ABORT can also result in this error. If the problem continues, contact your service representative.

IDFS00282I	Utility file system *utility_filesystem* anode table length=*anode_size* (in 8K blocks) LPI=*LPI_value encrypt_status compression_status*.

Explanation

Displays the encryption and compression attributes of the utility file system before verifying anode table pages. The information is intended for IBM service personnel.

utility_filesystem
>   Name of the utility file system.

anode_size
    The anode table size in 8K.

LPI_value
    The LPI value.

encrypt_status
    The encryption status.

compression_status
    The compression status.

System action

The program continues.

Administrator response

None.

IDFS00283E	DSFS failed to assign key label *key_label* to *utility_filesystem* because it is not known to ICSF.

Explanation
ICSF does not recognize the key label.

key_label
    The key label.

utility_filesystem
    Name of the utility file system.

System action

The program continues.

Administrator response:
Ensure that the correct key label is specified and try the command again.

IDFS00284E	ICSF could not be contacted to verify key label *key_label* for utility file system *utility_filesystem*.

Explanation
The key label must be known to ICSF before it can be used when defining or encrypting a DSFS utility file system.

key_label
    The key label.

utility_filesystem
    Name of the utility file system.

System action

The program continues.

Administrator response:
Ensure ICSF is running and verify that the key label is defined.

IDFS00285E	ICSF returned error code *error_code* reason code *reason_code* while verifying key label *key_label* for utility file system *utility_filename*.

Explanation
A problem was encountered using ICSF to verify a key label.

error_code
    The error code.

reason_code
    The reason code.

key_label
    The key label.

utility_filename
    The utility file system name.

System action

The program continues.

Administrator response:
Correct the problem and try the command again. Reason codes are documented in *z/OS Cryptographic Services ICSF Application Programmer's Guide*.

IDFS00286E	IDFFSKN termination hang, detaching IDFFSKN.

Explanation:
IDFFSKN has started the termination process for a shutdown command or a DSFS severe software error (abort). However, program IDFFSCM 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 IDFFSKN program. A detach abend might occur but termination now proceeds. The DSFS restart prompt will likely be issued.

System action

The program continues.

Administrator response:
Contact your service representative.

IDFS00287E	IO driver termination problem detected, continuing termination.

Explanation:
IDFFSKN main task has detected that there were problems encountered while terminating the DSFS IO driver during a shutdown operation or an abnormal termination. Termination processing continues but DSFS will end and the DSFS restart prompt will likely be issued.

System action

The program continues.

Administrator response:
Contact your service representative.

IDFS00288E	Memory registration service FPZ4RMR failed with return code *return_code* reason code *reason_code*.

Explanation
DSFS will attempt to fix the file cache via the zEDC FPZ4RMR function if DSFS compression is requested via mounting a compressed file system or specifying EDCFIXED for the file cache. This message is shown for each file cache space that could not be fixed. DSFS will attempt to fix as many file cache spaces as it can in this case. The QUERY,FILECACHE command can be used to determine which cache spaces are fixed via FPZ4RMR service.

return_code
    The return code.

reason_code
    The reason code.

System action

The program continues.

Administrator response:
The system determines if DSFS can fix a cache space, it is determined by the amount of DMA memory available on the system and the usage of that memory by other applications on the system. Thus this might be a normal response for your system. The message is provided to alert the administrator in case they want to examine DMA memory usage.

IDFS00289E	The encryption type associated with key label *key_label* is not supported by DFSMS.

Explanation

DFSMS only supports AES-256 XT protected key encryption.

key_label
    The key label.

System action

The program continues.

Administrator response:
Try a different key label.

IDFS00290E	*component_name* returned error code *error_code* reason code *reason_code* while trying to open utility file system *utility_filename*.

Explanation

A problem was encountered while opening a utility file system.

component_name
    The component.

error_code
    The error code.

reason_code
    The reason code.

utility_filename
    The utility file system name.

System action

The program continues.

Administrator response:
See accompanying message IEC161I, correct the problem, and try the command again.

IDFS00292E	Dynamic allocation abend occurred for data set *dataset_name*. Abend code=*abend_code* func=*function_code*.

Explanation

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

dataset_name
    The data set name.

abend_code
    The abend code.

function_code
   The function code.

System action

The program continues.

Administrator response:
Review the system logs for error messages related to dynamic allocation and the specified data set. Correct the error and retry the operation.

IDFS00293I	**Waiting for *service_name* to initialize.**

Explanation

The named service is not available. DSFS is waiting to allow the service to initialize.

service_name
   The service name.

System action

The program continues.

Administrator response

None.

IDFS00294I	**Wait ending and *service_name* is not initialized.**

Explanation

After waiting, the named service is still not initialized. Operations requiring this service will fail.

service_name
   The service name.

System action

The program continues.

Administrator response:
Determine why the named service will not initialize and restart the service.

IDFS00295I	***service_name* is now initialized.**

Explanation

The named service is now available.

service_name
   The service name.

System action

The program continues.

Administrator response:
Operations that failed because the service was not initialized can now be retried.

IDFS00296I	**The wait for *service_name* initialization ended because DSFS is being stopped or restarted.**

Explanation

DSFS has stopped waiting for the named service to initialize.

service_name
    The service name.

System action

The program continues.

Administrator response:
When DSFS restarts, ensure the named service is initialized before retrying operations that require the service.

IDFS00297I	**The wait for *service_name* initialization is not started because DSFS is being stopped or restarted.**

Explanation

Since DSFS is being stopped or restarted, it does not need to wait for the initialization of the named service.

service_name
    The service name.

System action

The program continues.

Administrator response:
When DSFS restarts, ensure the named service is initialized before retrying operations that require the service.

IDFS00298E	**Mount for utility file system *utility_filename* failed because ICSF is not initialized.**

Explanation

ICSF is not initialized. DSFS cannot mount a utility file system that has a key label if ICSF is not initialized.

utility_filename
    The utility file system name.

System action

The program continues.

Administrator response:
Try the operation again after ICSF is initialized.

IDFS00299E	**Mount for utility file system *utility_filename* failed because DSFS is being stopped or restarted.**

Explanation

Mounts that are waiting for ICSF to initialize are failed when DSFS is being stopped or restarted.

utility_filename
    The utility file system name.

System action

The program continues.

Administrator response:
Try the mount again when ICSF is initialized and DSFS is not being stopped or restarted.

| **IDFS00300E** | **Open for utility file system** *utility_filename* **failed because ICSF is not initialized.** |

Explanation

ICSF is not initialized. DSFS cannot open a utility file system that has a key label if ICSF is not initialized.

utility_filename
    The utility file system name.

System action

The program continues.

Administrator response:
Try the operation again after ICSF is initialized.

| **IDFS00301E** | **Open for utility file system** *utility_filename* **failed because DSFS is being stopped or restarted.** |

Explanation

Opens that are waiting for a ICSF to initialize are failed when DSFS is being stopped or restarted.

utility_filename
    The utility file system name.

System action

The program continues.

Administrator response:
Try the operation again when DSFS is not being stopped or restarted.

| **IDFS00302I** | **The EDCFIXED option of the filecache_size IDFFSPRM configuration option is ignored.** |

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

System action

The program continues.

Administrator response:
Once zEDC is initialized, issue the **dsadm config** `-filecache_size` command with the EDCFIXED option.

| **IDFS00303E** | **Mount for utility file system** *utility_filename* **failed because zEDC is not initialized.** |

Explanation

zEDC is not initialized. DSFS cannot mount a utility file system that is compressed if zEDC is not initialized.

utility_filename
    The utility file system name.

System action

The program continues.

Administrator response:
Try the operation again after zEDC is initialized.

IDFS00305I	DSFS is waiting for SMS initialization.

Explanation:
DSFS is waiting for SMS to initialize because the IDFFSPRM configuration option `filecache_size` has the EDCFIXED keyword specified. DSFS will continue initialization once it receives notification that SMS is available. SMS and zEDC are required products for DSFS compression.

System action

The program continues.

Administrator response:
No action required if you plan to use compressed file systems. If DSFS 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.

IDFS00306I	DSFS is waiting for zEDC initialization.

Explanation:
DSFS is waiting for zEDC to initialize because the IDFFSPRM configuration option `filecache_size` has the EDCFIXED option specified. DSFS will continue initialization once it receives notification that zEDC is available. SMS and zEDC are required products for DSFS compression.

System action

The program continues.

Administrator response:
No action required if you plan to use compressed file systems. If DSFS 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.

IDFS00307I	Utility file system *filesystem_name* received a compression failure due to lack of zEDC devices.

Explanation
A compression file write for one or more files in the indicated utility file system failed due to lack of zEDC devices. The file data will be stored in non-compressed format. No application errors will occur.

filesystem_name
    The utility file system name.

System action

The program continues.

Administrator response

None.

IDFS00308E	Utility file system *filesystem_name* CI=*control_interval* (*data_type* inode=*inode_number*) is not stored in encrypted format.

Explanation
A decryption read request of an extended format data set found that DSFS has stored data that is supposed to be encrypted in the clear. The type of data that is affected is in parentheses and is one of the following values: meta (internal file system metadata), compressed file, or uncompressed file. A dump is 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 is zero.

filesystem_name
    The utility file system name.

control_interval
    The control interval number.

data_type
    The type of data affected.

inode_number
    The inode number of the file affected, will be 0 for type meta.

System action

The program continues.

Administrator response:
If the data type is meta or compressed file data, then use the **dsadm salvage** command to detect the condition. This will cause the utility file system to be marked damaged and DSFS to restart. When the utility file system is remounted, it will be reformatted. If the data is uncompressed file data, then inode identifies the file and that file can be rewritten with new contents, for example, using the **cp** command to copy the file to a new name and then delete the old file and use the **mv** command to change the new file to the original name. As an alternative, you can also define a new utility file system. Report the problem to the service representative.

IDFS00313I	Call to catalog service for data set *utility_filename* failed, rc=*return_code* rsn=*reason_code*.

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.

utility_filename
    The name of the utility file system.

return_code
    The catalog service return code.

reason_code
    The catalog service reason code.

System action

The program continues.

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.

IDFS00319I	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.

Administrator response:
Check the `msg_input_dsn` variable in the configuration data set and verify that the messages data set is valid.

IDFS00320I	Formatting to *interval_size* control interval *number_intervals* for primary extent of *utility_filename*.

Explanation

The DSFS device driver encountered an unformatted utility file system and is loading it.

interval_size
    The control interval size.

number_intervals
    The number of control intervals

utility_filename
    Name of the utility file system.

System action

The program continues.

Administrator response:
None.

IDFS00324E	Could not add the specified high-level qualifier directory names to the HLQ list, error code *return_code* reason code *reason_code*.

Explanation

The DSFS kernel failed to add the specified high-level qualifier directory names to the HLQ list. The specified high-level qualifier directory names can be either empty or contain an invalid name.

return_code
    The return code from the DSFS kernel.

reason_code
    The reason code.

System action

The program ends.

Administrator response:
Ensure the high-level qualifier directory names are valid. Use commas to separate multiple names and do not embed blanks between the names. Fix the error and try again.

IDFS00325E	Could not remove the specified high-level qualifier directory names from the HLQ list, error code *return_code* reason code *reason_code*.

Explanation

The DSFS kernel failed to remove the specified high-level qualifier directory names from the HLQ list. The specified high-level qualifier directory names are not in the existing HLQ list.

return_code
    The return code from the DSFS kernel.

reason_code
    The reason code.

System action

The program ends.

Administrator response:
Ensure that the high-level qualifier directory names are valid. Use commas to separate multiple high-level qualifier directory names and do not embed blanks between the names. The **dsadm configquery** -hlq_list command can be used to display the current HLQ list. To display the HLQ mode (EXCLUDE), use the **dsadm configquery** -hlq_mode command.

IDFS00326I   **Successfully added the specified high-level qualifier names to the HLQ list.**

Explanation:
The DSFS kernel successfully added the specified high-level qualifier directory names to the HLQ list.

System action

The program ends.

Administrator response

None.

IDFS00327I   **Successfully removed the specified high-level qualifier names from the HLQ list.**

Explanation:
The DSFS kernel successfully removed the specified high-level qualifier directory names from the HLQ list.

System action

The program ends.

Administrator response

None.

IDFS00328E   **Missing or invalid keywords in creation parameters.**

Explanation:
Creation parameters require DSORG and RECFM keywords with valid data set attributes specified.

System action

The program ends.

Administrator response:
For more information about keywords for dynamic allocation, see Requesting dynamic allocation functions in
z/OS MVS Programming: Authorized Assembler Services Guide.

IDFS00329E   **Could not set creation parameters, return code *return_code* reason code *reason_code*.**

Explanation

The DSFS kernel encountered an error while attempting to set the creation parameters.

return_code
  The return code from the DSFS kernel.

reason_code
  The reason code.

System action

The program ends.

Administrator response:
For information about the provided reason code, see Chapter 3, "Reason codes," on page 85.

IDFS00330E   **Either the `-pdsmodel` or `-psmodel` option must be specified.**

Explanation:

Either the -pdsmodel or -psmodel option is required for the **createparm** command.

System action

The program ends.

Administrator response:
Retry the command specifying the -pdsmodel or -psmodel option.

IDFS00331E	**Call to BPXWDYN encountered an error, return code *return_code*.**

Explanation:
BPXWDYN returned an error while attempting to verify syntax.

System action

return_code
    The return code from the DSFS kernel.

System action

The program ends.

Administrator response:
For information about the provided return code, see BPXWDYN return codes in *z/OS Using REXX and z/OS UNIX System Services*.

IDFS00333E	**Call to Catalog Search Interface failed with return code *return_code* and reason code *reason_code*.**

Explanation:
An error occurred during the call to Catalog Search Interface (CSI).

System action

return_code
    The return code from CSI.

reason_code
    The reason code.

System action

The program continues.

Administrator response:
Consult *z/OS DFSMS Managing Catalogs* for the displayed return code and reason code.

IDFS00334E	**RACROUTE REQUEST=VERIFY call to create ACEE for user *user_name* failed with SAF rc *SAF_return* RACF rc *RACF_return* Reason Code *RACF_reason*.**

Explanation

An error occurred during the call to create an ACEE.

user_name
    The username.

SAF_return
    The SAF return code.

RACF_return
    The RACF return code.

RACF_reason
> The RACF reason code.

System action

The program continues.

Administrator response:
Consult *z/OS Security Server RACROUTE Macro Reference* for the displayed return codes and reason code.

IDFS00335E	**RACROUTE REQUEST=VERIFY call to delete ACEE *ACEE* for user *user_name* failed with SAF rc *SAF_return* RACF rc *RACF_return* Reason Code *RACF_reason*.**

Explanation
An error occurred during the call to delete an ACEE.

ACEE
> The ACEE.

user_name
> The username.

SAF_return
> The SAF return code.

RACF_return
> The RACF return code.

RACF_reason
> The RACF reason code.

System action

The program continues.

Administrator response:
Consult *z/OS Security Server RACROUTE Macro Reference* for the displayed return codes and reason code.

IDFS00336E	**RACROUTE REQUEST=EXTRACT call to extract security information for user *user_name* failed with SAF rc *SAF_return* RACF rc *RACF_return* Reason Code *RACF_reason*.**

Explanation
An error occurred during the call to extract a user security environment.

user_name
> The username.

SAF_return
> The SAF return code.

RACF_return
> The RACF return code.

RACF_reason
> The RACF reason code.

System action

The program continues.

Administrator response:
Consult *z/OS Security Server RACROUTE Macro Reference* for the displayed return codes and reason code.

IDFS00337E	RACROUTE REQUEST=AUTH call to authorize *access_mode* access to data set *dataset_name* for user *user_name* failed with SAF rc *SAF_return* RACF rc *RACF_return* Reason Code *RACF_reason*.

Explanation

An error occurred during the call to check user authorization to the data set.

access_mode
    The access mode.

dataset_name
    The data set name.

user_name
    The username.

SAF_return
    The SAF return code.

RACF_return
    The RACF return code.

RACF_reason
    The RACF reason code.

System action

The program continues.

Administrator response:
Consult *z/OS Security Server RACROUTE Macro Reference* for the displayed return codes and reason code.

IDFS00338E	RACROUTE REQUEST=FASTAUTH call to authorize access to the key label *keylabel* for data set *dataset_name* for user *user_name* failed with SAF rc *SAF_return* RACF rc *RACF_return* Reason Code *RACF_reason*.

Explanation

An error occurred during the call to check user authorization to the key label.

key_label
    The key label.

dataset_name
    The data set name.

user_name
    The username .

SAF_return
    The SAF return code.

RACF_return
    The RACF return code.

RACF_reason
    The RACF reason code.

System action

The program continues.

Administrator response:
Consult *z/OS Security Server RACROUTE Macro Reference* for the displayed return codes and reason code.

IDFS00339E	Input data error storing data set *dataset_name* offset *byte_offset*: data gap larger than LRECL.

Explanation

An attempt was made to store contents of the DSFS POSIX file into the named data set but the data at the indicated offset contains a hole (was not written by the application) larger than the maximum record size for the data set.

dataset_name
    The data set name.

byte_offset
    The POSIX byte offset in the file.

System action

The program continues.

Administrator response:
The application must be updated to follow the DSFS file update rules as explained in *z/OS Data Set File System Administration.*

IDFS00340E	**Input data error storing data set *dataset_name*(*member_name*) offset *byte_offset*: data gap larger than LRECL.**

Explanation

An attempt was made to store contents of the DSFS POSIX file into the named data set but the data at the indicated offset contains a hole (was not written by the application) larger than the maximum record size for the data set.

dataset_name
    The data set name.

member_name
    The member name.

byte_offset
    The POSIX byte offset in the file.

System action

The program continues.

Administrator response:
The application must be updated to follow the DSFS file update rules as explained in *z/OS Data Set File System Administration.*

IDFS00341E	**Input data error storing data set *dataset_name* offset *byte_offset*: text record larger than LRECL.**

Explanation

An attempt was made to store contents of the DSFS POSIX file into the named data set but the data at the indicated offset contains a text record that is larger than the maximum record size for the data set.

dataset_name
    The data set name.

byte_offset
    The POSIX byte offset in the file.

System action

The program continues.

Administrator response:

The application must be updated to follow the DSFS file update rules as explained in *z/OS Data Set File System Administration.*

IDFS00342E	Input data error storing data set *dataset_name*(*member_name*) offset *byte_offset*: text record larger than LRECL.

Explanation

An attempt was made to store contents of the DSFS POSIX file into the named data set but the data at the indicated offset contains a text record that is larger than the maximum record size for the data set.

dataset_name
> The data set name.

member_name
> The member name.

byte_offset
> The POSIX byte offset in the file.

System action

The program continues.

Administrator response:
The application must be updated to follow the DSFS file update rules as explained in *z/OS Data Set File System Administration.*

IDFS00343E	Input data error storing data set *dataset_name* offset *byte_offset*: record header length larger than LRECL.

Explanation

An attempt was made to store contents of the DSFS POSIX file into the named data set but the data at the indicated offset contains a record header that specifies a length larger than the maximum record size for the data set.

dataset_name
> The data set name.

byte_offset
> The POSIX byte offset in the file.

System action

The program continues.

Administrator response:
The application must be updated to follow the DSFS file update rules as explained in *z/OS Data Set File System Administration.*

IDFS00344E	Input data error storing data set *dataset_name*(*member_name*) offset *byte_offset*: record header length larger than LRECL.

Explanation

An attempt was made to store contents of the DSFS POSIX file into the named data set but the data at the indicated offset contains a record header that specifies a length larger than the maximum record size for the data set.

dataset_name
> The data set name.

member_name
> The member name.

byte_offset
    The POSIX byte offset in the file.

System action

The program continues.

Administrator response:
The application must be updated to follow the DSFS file update rules as explained in *z/OS Data Set File System Administration.*

IDFS00345E	Input data error storing data set *dataset_name* offset *byte_offset*: record header not equal to LRECL.

Explanation
An attempt was made to store contents of the DSFS POSIX file into the named data set but the data at the indicated offset contains a record header that specifies a length not equal to the LRECL of the fixed record data set.

dataset_name
    The data set name.

byte_offset
    The POSIX byte offset in the file.

System action

The program continues.

Administrator response:
The application must be updated to follow the DSFS file update rules as explained in *z/OS Data Set File System Administration*.

IDFS00346E	Input data error storing data set *dataset_name*(*member_name*) offset *byte_offset*: record header not equal to LRECL.

Explanation
An attempt was made to store contents of the DSFS POSIX file into the named fixed record data set but the data at the indicated offset contains a record header that specifies a length not equal to the LRECL of the fixed record data set.

dataset_name
    The data set name.

member_name
    The member name.

byte_offset
    The POSIX byte offset in the file.

System action

The program continues.

Administrator response:
The application must be updated to follow the DSFS file update rules as explained in *z/OS Data Set File System Administration*.

IDFS00347I	DSFS will reformat the utility file system *utility_filename*.

Explanation

The utility file system was not unmounted cleanly. It will be reformatted before use. DSFS will reformat a utility file system if there were no creation parameters set for high level qualifiers to quickly create a usable utility file system. If there were creation parameters used DSFS would perform additional actions at mount time to preserve those parameters so they are not lost.

utility_filename
>   The utility file system name.

System action

The program continues.

Administrator response

None.

IDFS00348I	**Linear data set *dataset_name* for DSFS utility file system *utility_filename* cannot be found or cannot be mounted.**

Explanation

The named data set to be used as the utility file system does not exist or is not cataloged.

dataset_name
>   The data set name.

utility_filename
>   The utility file system name.

System action

The program continues.

Administrator response:

If the UTFS_NAME option is specified in the IDFFSPRM file, change its value to a linear data set that exists. If the UTFS_NAME option is not specified, the FILESYSTEM keyword of the MOUNT command should be the uppercase name of the linear data set without its system name qualifier.

IDFS00349E	**BPXWDYN encountered an error *call_type* data set *dataset_name*, return code *return_code*. *message_1 message_2 message_3 message_4*.**

Explanation

DSFS uses the BPXWDYN service to allocate or free data sets. The error code was returned by BPXWDYN.

call_type
>   Type of BPXWDYN call, allocating or freeing.

dataset_name
>   The data set name.

return_code
>   The return code from the BPXWDYN call.

message_1 - message_4
>   Optional output messages from BPXWDYN.

System action

The program continues.

Administrator response:

For information about the provided return code, see BPXWDYN return codes in *z/OS Using REXX and z/OS UNIX System Services*.

IDFS00351A   **Invalid HLQ mode *mode_setting*, DSFS initialization will stop.**

Explanation

An invalid HLQ mode was specified in the DSFS parameters file. Because the HLQ mode was not valid, DSFS does not know what high-level qualifier directory names can be accessed.

mode_setting
    The HLQ_MODE setting found in the DSFS parameters file.

System action

The program ends.

Administrator response:
Correct the HLQ_MODE in the DSFS parameters file. It can only be the value EXCLUDE. Restart DSFS.

IDFS00352I   **DSFS is using HLQ *mode_setting* mode.**

Explanation

DSFS has been initialized and is using the indicated mode for restricting which high-level qualifier directory names are allowed to be accessed by DSFS.

mode_setting
    The HLQ_MODE setting used by DSFS can only be EXCLUDE.

System action

The program continues.

Administrator response

None.

IDFS00353I   ***mode_setting* HLQs: *HLQ HLQ HLQ HLQ***

Explanation

DSFS has been initialized with the indicated list of excluded high-level qualifier directory names. This message is preceded by message IDFS00352I , which shows the HLQ mode used by DSFS.

mode_setting
    The HLQ mode must be EXCLUDE.

HLQ
    An high-level qualifier directory name in the HLQ_LIST provided to DSFS at initialization.

HLQ
    An high-level qualifier directory name in the HLQ_LIST provided to DSFS at initialization.

HLQ
    An high-level qualifier directory name in the HLQ_LIST provided to DSFS at initialization.

HLQ
    An high-level qualifier directory name in the HLQ_LIST provided to DSFS at initialization.

HLQ
    An high-level qualifier directory name in the HLQ_LIST provided to DSFS at initialization.

System action

The program continues.

Administrator response

None.

IDFS00354E   **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 DSFS. If the problem persists, or there is no error, contact your service representative.

IDFS00355E   **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 DSFS. If the problem persists, or there is no error, contact your service representative.

IDFS00356E   **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 restart DSFS. If the problem persists, or there is no error, contact your service representative.

IDFS00357E   **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.

Administrator response

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

IDFS00358E	**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.

Administrator response

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

IDFS00359E	**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.

Administrator response:
Correct the problem and restart DSFS. If the problem persists, or there is no error, contact your service representative.

IDFS00360E	**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.

Administrator response:
Correct the problem and restart DSFS. If the problem persists, or there is no error, contact your service
representative.

IDFS00361E	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.

Administrator response:
Correct the problem and restart DSFS. If the problem persists, or there is no error, contact your service
representative.

IDFS00362E	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.

Administrator response:
Correct the problem and restart DSFS. If the problem persists, or there is no error, contact your service
representative.

IDFS00363E	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.

Administrator response:

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

IDFS00364E	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.

Administrator response:
Correct the problem and restart DSFS. If the problem persists, or there is no error, contact your service representative.

IDFS00365E	Media Manager return code *return_code* disconnecting utility file system *utility_filename*.

Explanation
The return code for the Media Manager disconnect was nonzero for the specified utility file system. This might occur during a failed mount or during an unmount of the specified utility file system.

In the message text:

return_code
　　The hexadecimal Media Manager return code.

utility_filename
　　The utility file system name.

System action

The program continues.

Administrator response:
Correct the problem and restart DSFS. If the problem persists, or there is no error, contact your service representative.

Chapter 3. 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 DSFS are found within the range `'ED01'`-`X'EDFF'`.

6000	**One or more required parameters are missing.**

Action:
Specify the required number of parameters.

6001	**Command is too long. Its length exceeds maximum length of 256 characters.**

Action:
Enter a command that is less than 256 characters.

6002	**Internal parsing error.**

Action:
Contact the service representative.

6003	**Too many parameters specified.**

Action:
Enter the command specifying fewer parameters.

6004	**Two or more mutually exclusive parameters used.**

Action:
Enter the command with one of the parameters, not both.

6005	**The command was entered with too few arguments.**

Action:
Specify the minimum number of arguments.

6006	**Unrecognized or ambiguous command name.**

Action:
Enter the command again specifying a valid unabbreviated command.

6007	**The command parameter requires an argument value that is missing.**

Action:
Specify a valid argument value.

6008	**Unrecognized or ambiguous parameter switch name.**

Action:
Enter the command again with a valid parameter.

6009	**Defined parameters exceed the maximum.**

Action:
Contact the service representative.

600A	**Unable to find appropriate commands.**

Action:
Contact the service representative.

| 600B | Hi-used-RBA is more than hi-allocated-RBA. This should be compared with the TSO LISTCAT command. |

Action:
Contact the service representative.

| 600D | The buffer is not valid. |

Action:
Contact the service representative.

| 6013 | An invalid program module format was encountered. |

Action:
If the target data set is a PDS, check that the program module is not a program object with structures that are specific to program objects. Otherwise, check that the source file is a valid program module.

| 6015 | Internal error - could not access a directory block. |

Action:
Contact the service representative.

| 6016 | Internal failure during start transaction operation. |

Action:
An internal failure occurred. Contact the service representative.

| 6017 | Attempt to delete a non-empty directory. |

Action:
Ensure that the directory is empty before attempting to remove it.

| 6018 | Internal error updating `mtime` or `ctime`. |

Action:
If the utility file system is disabled, ensure it is remounted after DSFS restarts. Retry the operation. If the problem persists, contact the service representative.

| 601B | Error attempting to remove a name from a directory. |

Action:
Ensure that you are not attempting to remove the `.` or `..` entry from the directory, and try the operation again.

| 601C | Non-critical I/O wait failure. |

Action:
Contact the service representative.

| 601D | The log/buffer package was reinitialized. |

Action:
Contact the service representative.

| 601F | An abend occurred in the security product while processing this operation. |

Action:
Try to determine the cause of the security product failure, correct it, and then retry the operation. If the problem persists, contact the service representative.

| 6020 | Failure getting index on volstat. |

Action:
Contact the service representative.

| 6021 | Name not found in HLQ list. |

Action:
Ensure that the name entered matches the desired HLQ directory name and retry the request. If the problem persists, contact your service representative.

| **6022** | **File System has been deleted.** |

Action:
Contact the service representative.

| **6024** | **Could not create a new admin thread.** |

Action:
Contact the service representative.

| **6025** | **Internal failure during thread pool configuration.** |

Action:
An internal failure occurred. Contact the service representative.

| **6026** | **Internal failure in wait service.** |

Action:
An internal failure occurred. Contact the service representative.

| **6027** | **Thread pool size cannot be smaller than the required minimum. If dynamically changing the pool size, the new size cannot be smaller than the old size.** |

Action:
Specify a configuration option value of 1 or greater. If dynamically changing the pool size, you can only specify a new size larger than the old size.

| **6028** | **Too many threads attempted.** |

Action:
Specify a configuration option value of 1000 or less.

| **6029** | **Unable to get storage to perform the requested operation.** |

Action:
Make more space available and reissue the request.

| **602C** | **File system not found.** |

Action:
Contact the service representative.

| **602E** | **Internal failure. File system name not unique.** |

Action:
Contact the service representative.

| **602F** | **Internal Failure. File system name not found.** |

Action:
Contact the service representative.

| **6031** | **Internal failure. Mount name not found.** |

Action:
Contact the service representative.

| **6034** | **Internal failure.** |

Action:
An internal failure occurred. Contact the service representative.

| **6036** | **The new value specified is not allowed, or is not correct.** |

Action:
Correct the new value and try the operation again.

| **6037** | **Could not set the parm value as requested.** |

Action:

An internal failure occurred. Contact the service representative.

| 6038 | The **edcfixed** option was specified with **filecache_size**, but the file cache pages cannot be registered with the zEDC Express service. |

Action:
If the zEDC Express service is not available, ensure that the edcfixed option is not used with the filecache_size option in the IDFFSPRM member. Also, ensure that it is not used with the **dsadm config -filecache_size** command.

| 6039 | **Invalid parm to afscall_config.** |

Action:
An internal failure occurred. Contact the service representative.

| 603A | **Internal failure. File cache not initiated.** |

Action:
An internal failure occurred. Contact the service representative.

| 603E | **Another thread pool resize command is already in progress.** |

Action:
Try the command again when no thread pool resize is in progress. If the problem persists, contact the service representative.

| 603F | **CFG_OPTION structure invalid.** |

Action:
Correct the CFG_OPTION structure.

| 6040 | **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.

| 6042 | **Failed to set or resize the EDC_BUFFER_POOL due to zEDC error.** |

Action:
Check error message IDFS00288E to see the zEDC return code and reason code. Fix the error and try again.

| 6043 | **Unexpected error resizing the pool used for encryption and compression.** |

Action:
Contact the service representative.

| 6047 | **An error was encountered.** |

Action:
Contact the service representative.

| 6048 | **One or more arguments are not valid.** |

Action:
Contact the service representative.

| 6049 | **Event already in set.** |

Action:
Contact the service representative.

| 604A | **There is no available space on the log device.** |

Action:
Contact the service representative.

| 604F | **The specified buffer could not be deleted.** |

Action:

Contact the service representative.

6050	**The requested operation would block.**

Action:
Contact the service representative.

6051	**The specified transaction is not valid.**

Action:
Contact the service representative.

6052	**The specified transaction is active.**

Action:
Contact the service representative.

6054	**The specified transaction has completed.**

Action:
Contact the service representative.

6055	**The specified transaction has committed.**

Action:
Contact the service representative.

6056	**An error occurred setting state during utility file system mount.**

Action:
Contact the service representative.

6057	**Recovery is complete.**

Action:
Contact the service representative.

6058	**Incorrect utility file system handle.**

Action:
Contact the service representative.

6059	**Incorrect anode handle.**

Action:
Contact the service representative.

605A	**Index is out of range or anode is not valid.**

Action:
Contact the service representative.

605C	**Incorrect, undefined or inconsistent command value.**

Action:
Contact the service representative.

605E	**Fid unique identifier does not match.**

Action:
Contact the service representative.

6060	**Incorrect volume handle.**

Action:
Contact the service representative.

6061	**File cannot have negative link count.**

Action:
Contact the service representative.

6064	Block is past the allocated end of the container.

Action:
Contact the service representative.

6065	Block address is too large.

Action:
Contact the service representative.

6067	A transaction must be specified.

Action:
Contact the service representative.

6068	Block is interior to the container but is not allocated.

Action:
Contact the service representative.

6069	Specified anode index does not exist.

Action:
Contact the service representative.

606A	The anode does not contain a file.

Action:
Contact the service representative.

606B	The container does not contain a volume table.

Action:
Contact the service representative.

606C	The bitmap is not consistent with the superblock.

Action:
Contact the service representative.

606D	The superblock does not lead to an AVL.

Action:
Contact the service representative.

606E	The file does not point to a createparm container.

Action:
Contact the service representative.

606F	Container is stored inline or fragmented.

Action:
Contact the service representative.

6070	Container is stored inline or blocked.

Action:
Contact the service representative.

6071	Container is stored fragmented or blocked.

Action:
Contact the service representative.

6072	An anode being deleted is still open.

Action:
Contact the service representative.

6073	An anode is not empty.

Action:
Contact the service representative.

6074	Other containers using these blocks for copy-on-write purposes.

Action:
Contact the service representative.

6075	Read operation extends past container length.

Action:
Contact the service representative.

6076	Specified size of the status area is too large.

Action:
Contact the service representative.

6077	Insufficient space on volume.

Action:
Contact the service representative.

6078	Copy-on-write is not available for this container.

Action:
Contact the service representative.

6079	Block allocation of log is in error.

Action:
Contact the service representative.

607A	Block allocation for bitmap ended in error.

Action:
Contact the service representative.

607D	Initialization entry point called more than once.

Action:
Contact the service representative.

607E	Object or module not properly initialized.

Action:
Contact the service representative.

607F	Tried to insert a block that is already allocated.

Action:
Contact the service representative.

6080	Incorrect block insertion parameters.

Action:
Contact the service representative.

6081	A rock was specified whose value was zero.

Action:
Contact the service representative.

6082	A volume was referenced while going offline.

Action:
Contact the service representative.

6083	An utility file system was referenced while going offline.

Action:
Contact the service representative.

6084	The container does not contain a volume header.

Action:
Contact the service representative.

6085	Volume does not have a root directory.

Action:
Contact the service representative.

6088	Write operation encountered an inconsistent state.

Action:
Contact the service representative.

6089	Existing fragment group cannot be extended.

Action:
Contact the service representative.

608A	Utility file system has some open volumes.

Action:
Contact the service representative.

608B	Volume has some open anodes.

Action:
Contact the service representative.

608D	New length is inconsistent with storage method.

Action:
Contact the service representative.

608E	Iterator value indicates previous is last.

Action:
Contact the service representative.

608F	Aux type inappropriate for non-directory files.

Action:
Contact the service representative.

6090	Anode block and offset pair is not valid.

Action:
Contact the service representative.

6092	Could not obtain a vnode due to vnode cache maximum size being reached.

Action:
Contact the service representative.

6093	File is deleted from system.

Action:
Contact the service representative.

6094	Could not use the `edcfixed` option to fix the file cache. The `edcfixed` option is limited to 14GB file caches or less.

Action:
Either make the file cache smaller or do not specify the `edcfixed` option.

6095	Failed to set or resize the file cache due to page fix error.

Action:
Check for error message IDFS00288E to see the zEDC return code and reason code. Fix the error and try again.

6096   **Attempt to make the file cache too small.**

Action:
Specify a configuration option FILECACHE_SIZE value of 10M or greater.

6097   **File cache size too big.**

Action:
Ensure that the `-filecache_size` value specified is less than 65536M.

6098   **Guardtime check on setattr failed.**

Action:
Contact the service representative.

6099   **Internal error. File cache has bad page pointers.**

Action:
Contact the service representative.

609A   **Internal error. File cache has bad page counts.**

Action:
Contact the service representative.

609B   **Internal error. Scheduling of dirty data from file cache failed.**

Action:
Contact the service representative.

609C   **Internal error. Sync of pending IO from file cache failed.**

Action:
Contact the service representative.

609D   **Internal error. Could not truncate file in file cache.**

Action:
Contact the service representative.

609E   **Internal error resizing file cache.**

Action:
Contact the service representative.

609F   **Internal error reading a file into the file cache.**

Action:
Contact the service representative.

60A0   **Internal error writing a file from the file cache.**

Action:
Contact the service representative.

60A1   **Internal error getting attributes for a file in the file cache.**

Action:
Contact the service representative.

60A2   **Internal error scheduling file data at close from the file cache.**

Action:
Contact the service representative.

60A3   **Internal error when doing fsync of file data from the file cache.**

Action:
Contact the service representative.

60A4   **Internal error setting file attributes in file cache.**

Action:

Contact the service representative.

60A5	Internal error handling page faults in file cache.

Action:

Contact the service representative.

60A8	Internal error freeing cache data from file cache.

Action:

Contact the service representative.

60A9	Internal error obtaining file block information for a file in the file cache.

Action:

Contact the service representative.

60AB	The utility file system log could not be recovered.

Action:

Contact the service representative.

60AD	Error creating or writing new utility file system structures.

Action:

Contact the service representative.

60AE	Disk sizes too small.

Action:

Contact the service representative.

60AF	A key label was specified but ICSF is not running.

Action:

Ensure that ICSF is running and try the command again.

60B0	Internal failure during ifs_close.

Action:

An internal failure occurred. Contact the service representative.

60B5	Error initializing the device.

Action:

Contact the service representative.

60B6	Utility file system is already formatted.

Action:

Contact the service representative.

60B7	File system partition too small.

Action:

Contact the service representative.

60B8	Too few disk blocks for file system.

Action:

Contact the service representative.

60B9	DFSMS returned an error while opening a utility file system.

Action:

See messages `IDFS00290E` and `IEC161I` at the console for more information.

60BA	An attempt to format a utility file system for encryption failed because the utility file system data set is not eligible for encryption.

Action:

Refer to the section on defining the encryption management mechanism in *z/OS DFSMSdfp Storage Administration* for information about how to define the data set in an SMS class that is eligible for encryption and that has a valid assigned key label.

60BB	Cannot open VSAM Linear Data Set for format.

Action:
Ensure the VSAM Linear Data Set exists and is accessible before retrying the operation.

60BC	Anode open failed.

Action:
Contact the service representative.

60BD	Unexpected error attaching newly created utility file system.

Action:
Contact the service representative.

60BE	Device does not exist.

Action:
Contact the service representative.

60BF	Internal failure during remove operation.

Action:
Contact the service representative.

60C0	Could not create an entry in a directory.

Action:
Contact the service representative if the return code is EMVSERR (157).

60C1	Internal error getting the status for a vnode.

Action:
Contact the service representative.

60C3	Internal failure during vnode lookup operation.

Action:
An internal failure occurred. Contact the service representative.

60C6	Setattr truncation error.

Action:
Contact the service representative.

60C8	Attempt to truncate a directory, not allowed.

Action:
Ensure that you are not attempting to truncate a directory.

60C9	Timestamp too large for 5 bytes.

Action:
Cannot store a timestamp that is larger than 5 bytes.

60CA	Unexpected error searching a directory.

Action:
Contact the service representative.

60CB	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 DSFS for a previously deleted file. If a different return code is presented, then contact the service representative.

60CC	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.

60CD	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.

60CF	A write operation was attempted against a directory with a corrupted tree.

Action:
Contact the service representative.

60D0	Creating a dir on vn_create.

Action:
Contact the service representative.

60D1	A bad vnode/anode pointer state exists.

Action:
Internal error. Contact your service representative.

60D2	Incorrect file handle.

Action:
Contact the service representative.

60D3	Internal error setting vnode key.

Action:
Contact the service representative.

60D4	Internal error creating the utility file system.

Action:
Contact the service representative.

60D5	Error creating root directory in a new utility file system.

Action:
Contact the service representative.

60D6	Error adding file system to utility file system file system table on disk.

Action:
Contact the service representative.

60DB	Could not reinitialize a new vnode after a utility file system operation.

Action:
Contact the service representative.

60DC	Could not initialize a vnode.

Action:
If the utility file system is disabled, ensure unmount and remount of the utility file system after DSFS is restarted. Retry the operation. If the problem persists, contact the service representative.

60DD	Internal error trying to place a hold on a vnode.

Action:
Contact the service representative.

60DE	Could not initialize a new vnode due to anode handle create failure.

Action:

Contact the service representative.

60DF	**File truncate error.**

Action:
Contact the service representative.

60F0	**Specified anode index already exists.**

Action:
Contact the service representative.

60F1	**Supplied status data extends too far.**

Action:
Contact the service representative.

60F2	**Insufficient space on utility file system.**

Action:
Ensure that there is sufficient space on the utility file system.

60F3	**Internal failure during item create.**

Action:
Contact the service representative.

60F4	**Internal failure during zlc.**

Action:
Contact the service representative.

60FA	**File System is out of service.**

Action:
Contact the service representative.

60FB	**File System is damaged.**

Action:
Contact the service representative.

60FD	**An error was encountered processing the zero link count list.**

Action:
Contact the service representative.

60FE	**The GRS concurrent ENQ limit has been reached.**

Action:
Increase your systems concurrent limit to ensure proper functionality.

60FF	**An internal error was encountered during a GRS ENQ call.**

Action:
Contact the service representative.

6100	**Internal failure during utility file system operation.**

Action:
An internal failure occurred during a utility file system operation. Contact the service representative.

6101	**Detach failed because some utility file systems could not be closed.**

Action:
Contact the service representative.

6102	**Unmount of utility file system cannot proceed.**

Action:
Contact the service representative.

6103	Detach cannot proceed because utility file system is quiesced.

Action:
Unmount the utility file system after the operation causing the quiesce has completed.

6104	Utility file system being formatted

Action:
Wait for the format of the utility file system to complete, and try the unmount operation again.

6105	The file system on the utility file system could not be opened.

Action:
Contact the service representative.

6106	Internal problem with the utility file system that is preventing it from being mounted.

Action:
Ensure that the utility file system has been successfully formatted. Otherwise, contact the service representative.

6109	Formatting an attached utility file system.

Action:
Contact the service representative.

6116	The AGGR_FORMAT structure has invalid values.

Action:
Contact the service representative.

6117	The name of the utility file system being formatted is invalid.

Action:
Contact the service representative.

6118	Unexpected error growing utility file system.

Action:
You may have a zero secondary allocation on the data set or there may not be sufficient space on the volume. Otherwise, contact the service representative.

6119	Container does not have an allocation handle.

Action:
Contact the service representative.

611A	Incorrect, undefined or inconsistent arguments.

Action:
Contact the service representative.

611B	An error occurred during extension of the DSFS utility file system.

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.

611C	Could not determine status of the utility file system.

Action:
Contact the service representative.

611D	File system not locally mounted on owning system.

Action:
Retry operation after file system is mounted.

| **611E** | **Aggregate not found.** |

Action:
The utility file system specified cannot be found. Correct the utility file system name and try again.

| **6120** | **Salvage found minor errors in the utility file system. The utility file system is marked damaged and DSFS restarted. The utility file system will be reformatted the next time it is mounted.** |

Action:
If the problem persists, contact the service representative.

| **6121** | **There is no salvage operation to cancel. The utility file system is not currently being salvaged.** |

Action:
If the utility file system is being salvaged, contact the service representative.

| **6124** | **Salvage found major errors in the utility file system. The utility file system is marked damaged and DSFS restarted. The utility file system will be reformatted the next time it is mounted.** |

Action:
If the problem persists, contact the service representative.

| **6127** | **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.

| **6128** | **Utility file system sync operation failed.** |

Action:
Contact the service representative.

| **6129** | **Utility file system already quiesced or quiescing, or unquiescing.** |

Action:
The utility file system is already quiesced or a quiesce or unquiesce operation is already in progress for this utility file system. If utility file system is being dynamically grown, the utility file system should not be already quiesced. Contact the service representative.

| **612A** | **Utility file system is busy. It cannot perform the operation requested.** |

Action:
The utility file system is busy with another operation that conflicts with this operation. Try your request again. If it continues to fail, contact the service representative.

| **612B** | **The command failed because the utility file system is disabled. A utility file system can be disabled due to an I/O error, an internal DSFS error, or a data set reopen operation fails. If the utility file system is encrypted, this can be caused by ICSF problems. DSFS will attempt to restart.** |

Action:
If the utility file system is encrypted, correct any ICSF problem so the utility file system can be remounted. When the utility file system is remounted, try the command again. If the problem persists, contact the service representative.

| **612C** | **Error closing utility file system.** |

Action:
Contact the service representative.

| **612D** | **Utility file system busy with another operation.** |

Action:
Use the error code to determine why the file system could not be quiesced during the utility file system quiesce.

6134	**Utility file system is quiesced during a format operation.**

Action:
Contact the service representative.

6135	**Utility file system is damaged.**

Action:
Contact the service representative.

6136	**Request failed due to grow in process.**

Action:
The request failed because DSFS is busy doing a grow operation. Retry the request when the grow completes.

6137	**AGGR_FORMAT has an invalid `af_encrypt` value. The value must be 0, 1, or 2.**

Action:
Contact the service representative.

6138	**AGGR_FORMAT has an invalid `af_compress` value. The value must be 0, 1, or 2.**

Action:
Contact the service representative.

6139	**AGGR_FORMAT has an invalid `af_aggrversion` value.**

Action:
Contact the service representative.

613A	**Utility file system not attached.**

Action:
The utility file system must be attached before a file system can be created in it.

613B	**FS_ID utility file system name not specified.**

Action:
Contact the service representative.

613C	**Invalid salvage type. The salvage type must be 1 or 3, indicating verify only or cancel.**

Action:
Specify the correct salvage type and try the operation again.

613D	**The utility file system could not be found.**

Action:
Contact the service representative.

613E	**AGGR_FORMAT eyecatcher invalid.**

Action:
Contact the service representative.

613F	**AGGR_FORMAT length invalid.**

Action:
Contact the service representative.

6140	**AGGR_FORMAT version invalid.**

Action:
Contact the service representative.

6141   **AGGR_FORMAT reserved field invalid.**

Action:
Contact the service representative.

6142   **Either you are not properly authorized for this operation or DSFS could not verify your authorization. The subcommand requires UPDATE access to the utility file system.**

Action:
Ensure that the proper access is granted and try the operation again.

6144   **The key label specified is not associated with an encryption type supported by DFSMS.**

Action:
Specify another key label and try the command again.

6145   **ICSF returned an error while validating a key label.**

Action:
Take the action documented in message `IDFS00285E`.

6146   **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 DSFS utility file system.

614A   **z/OS UNIX System Services routine osi_ctl encountered an error.**

Action:
Contact the service representative.

614B   **Internal failure.**

Action:
An internal failure occurred. Contact the service representative.

614C   **Invalid parms in request.**

Action:
An invalid parameter was passed. Correct the parameter and try again.

614D   **A utility file system with a key label cannot be mounted because ICSF is not initialized.**

Action:
Ensure ICSF is initialized and try the command again.

614E   **The mount fails because zEDC is not initialized. The utility file system is compressed and requires zEDC to be ready before it can be mounted on this system.**

Action:
Try the operation again after zEDC is initialized.

614F   **Internal failure during mount operation.**

Action:
An internal failure occurred during a mount operation. Contact the service representative.

6150   **SVC 26 Listcat call returned an error.**

Action:
Verify that the data set exists. Try issuing Listcat against the data set.

6151   **Incorrect utility file system name or catalog errors.**

Action:

Check the system log for messages indicating there is a catalog error. If none are found, contact the service representative.

6152	Internal failure completing asynchronous mount operation.

Action:
An internal failure occurred during a mount operation. Contact the service representative.

6153	Internal failure during mount operation.

Action:
An internal failure occurred during a mount operation. Contact the service representative.

6154	The MOUNT command was specified with DSFS mount parameters. Mount parameters are not supported for DSFS.

Action:
Remove the mount parameters from the MOUNT command and issue the command again.

6155	Error parsing FSFULL parameter in IDFFSPRM file.

Action:
Ensure that the syntax of the FSFULL option in the IDFFSPRM file is valid.

6156	Attempt to mount a utility file system read-only is not allowed.

Action:
Ensure that the utility file system that is being mounted read-write, and try the mount again.

6159	No root directory found for file system.

Action:
You may need to define a new utility file system. See *z/OS Data Set File System Administration* for information about managing utility file systems. Contact the service representative.

615A	File system busy or unable to be mounted. DSFS only allows one mounted file system.

Action:
There is another operation in progress that conflicts with this operation. If there are no mounted file systems after the conflict is resolved, try your request again. If it continues to fail, contact the service representative.

615B	Lookup failure for volser for utility file system attach.

Action:
Contact the service representative.

615E	Could not obtain ENQs indicating utility file system ownership.

Action:
Contact the service representative.

6160	Utility file system already attached.

Action:
Contact the service representative.

6162	Striped VSAM Linear Data Set not supported for DSFS utility file system.

Action:
Striped VSAM Linear Data Sets are not supported. If the VSAM LDS was not defined as striped, contact the service representative.

6163	Error with issuing a LOCATE call for a utility file system.

Action:
If the UTFS_NAME option in the IDFFSPRM file is specified, ensure the value is the full name of the VSAM linear data set. Otherwise, ensure that the file system named on the MOUNT command has the same name as the VSAM linear data set to be used as the utility file system, minus the last qualifier (which must be the system

name). Also ensure that the file system named on the MOUNT command is in uppercase. You can also check the system log for catalog errors. If the problem persists, contact the service representative.

6164	Utility file system is not a VSAM Linear Data Set.

Action:
Ensure that the utility file system data set is defined as a VSAM Linear Data Set. If the problem persists, contact the service representative.

6165	Error attaching utility file system.

Action:
A mount of a DSFS 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. DSFS prevents data corruption by not allowing a DSFS 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. DSFS prevents a system from writing to a DSFS utility file system that is mounted read-write on another system. Another possible cause is the VSAM linear data set was not correctly formatted. Also, look in the system log for messages from other z/OS components related to this utility file system (data set) name. Otherwise, contact the service representative.

6166	Statistics Query Parm0 value is invalid.

Action:
The Parm0 value for all Statistics Query subcommands must be 32.

6167	Statistics Query Parm1 value is invalid.

Action:
The Parm1 value for all Statistics Query subcommands must be 80.

6169	Syscall_parmlist bad offset at parms1.

Action:
The STAT_API structure must be 48 bytes. The offset at parms1 must be 80 (32+48).

616B	Reserved bytes must be zero.

Action:
The sa_reserve bytes in the STAT_API must be zeros.

616C	No thread available for the requested long-running command.

Action:
Retry the request when there is an available thread for the long-running command.

616D	STAT_API eye catcher is wrong.

Action:
The eyecatcher for the STAT_API structure must be STAP.

616E	STAT_API version number is wrong.

Action:
The version number for the STAT_API structure must be 1 or 2.

616F	STAT_API size is wrong.

Action:
The size of the STAT_API structure must be at least 48 bytes.

6170	Buffer size is too small.

Action:
The size of the buffers for a statistics query were not large enough.

6172	Report type is wrong.

Action:
The statistics subcommand is invalid.

6174	Statistics Locking Query Parm0 value is invalid.

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

6175	Statistics Storage Query Parm0 value is invalid.

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

6176	Statistics Locking Query Parm1 value is invalid.

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

6177	Statistics Storage Query Parm1 value is invalid.

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

617C	Statistics Iobydasd Query Parm0 value is invalid.

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

617D	Statistics Iobydasd Query Parm1 value is invalid.

Action:
The Parm1 value for the Statistics Iobydasd Query subcommand must be 80.

618C	The security server could not return a UTOKEN for the user.

Action:
Internal error. Contact the service representative.

618D	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.

618E	Invalid PFS control request command.

Action:
Ensure that the application is specifying a valid pfsctl request.

618F	Utility file system name longer than 44 characters. The utility file system name is the name that is specified in the UTFS_NAME option of the IDFFSPRM file or the name that is the result of combining the FILESYSTEM parameter on the mount command with the local system name.

Action:
Change the utility file system name to be 44 characters or less.

6196	Version number is incorrect.

Action:
Contact the service representative.

6197	The eye catcher is incorrect.

Action:
Contact the service representative.

6198	The value in the er_flags field must be hex zero.

Action:
Contact the service representative.

6199   **The value in the er_fill field must be hex zeros.**

Action:
Contact the service representative.

619A   **The values in the er_reserve fields must be hex zeros.**

Action:
Contact the service representative.

619B   **The `-filename` parameter was too long.**

Action:
Contact the service representative.

619C   **The `-path` parameter was too long.**

Action:
Contact the service representative.

619D   **The `-msg` parameter was too long.**

Action:
Contact the service representative.

619E   **The `-filesystem` name parameter was too long.**

Action:
Contact the service representative.

619F   **PFS control command failed.**

Action:
Check the return code to determine why the pfsctl function failed.

61A0   **Failed obtaining data from the user buffer.**

Action:
Contact the service representative.

61A1   **Failed writing data into the user buffer.**

Action:
Contact the service representative.

61A3   **Length for parm0 is bad.**

Action:
Fix the length and retry.

61A4   **Length for parm1 is bad.**

Action:
Fix the length and retry.

61A5   **Length for parm2 is bad.**

Action:
Fix the length and retry.

61A6   **Length for parm3 is bad.**

Action:
Fix the length and retry.

61A7   **Length for parm4 is bad.**

Action:
Fix the length and retry.

61A8   **Length for parm5 is bad.**

Action:

Fix the length and retry.

61A9	**Length for parm6 is bad.**

Action:

Fix the length and retry.

61AB	**Internal error while processing FSINFO request.**

Action:

Contact the service representative.

61AC	**There are too many in-progress PFSCTL commands.**

Action:

DSFS has reached its limit of concurrent PFSCTL calls. This is generally not typical. Contact the service representative.

61AD	**Bad parameter value passed in FSINFO_REQUEST structure.**

Action:

Correct the bad parameter and retry the operation.

61AE	**Parms0 is not zero.**

Action:

The offset at parms0 must be set to zero.

61AF	**Parms1 is not set to zero.**

Action:

The offset at parms1 must be set to zero.

61B0	**Parms2 is not set to zero.**

Action:

The offset at parms2 must be set to zero.

61B1	**Parms3 is not set to zero.**

Action:

The offset at parms3 must be set to zero.

61B2	**Parms4 is not set to zero.**

Action:

The offset at parms4 must be set to zero.

61B3	**Parms5 is not set to zero.**

Action:

The offset at parms5 must be set to zero.

61B4	**Parms6 is not set to zero.**

Action:

The offset at parms6 must be set to zero.

61BB	**syscall_parmlist bad offset at parm4.**

Action:

Specify the correct offset in parm4.

61BC	**syscall_parmlist parm4 truncated.**

Action:

Specify a size to include all the parms.

61BD	**syscall_parmlist parm4 missing.**

Action:

Specify parm4.

61BE   **A Syscall parmlist is invalid.**

Action:
Provide a valid subcommand opcode or ensure the argument is large enough to hold the syscall parmlist.

61BF   **Syscall_parmlist bad offset at parm0.**

Action:
The offset at parms0 must be 32.

61C0   **Syscall_parmlist parms0 truncated.**

Action:
The pfsctl argument must be increased to contain the entire required argument.

61C1   **Syscall_parmlist parms0 missing.**

Action:
A nonzero parms0 must be specified.

61C2   **Syscall_parmlist bad offset at parms1.**

Action:
The offset at parms1 must contain the correct offset for the required parameters.

61C3   **Syscall_parmlist parms1 truncated.**

Action:
The pfsctl argument must be increased to contain the entire required argument.

61C4   **Syscall_parmlist parms1 missing.**

Action:
A nonzero parms1 must be specified.

61C5   **Syscall_parmlist bad offset at parms2.**

Action:
The offset at parms2 must contain the correct offset for the required parameters.

61C6   **Syscall_parmlist parms2 truncated.**

Action:
The pfsctl argument must be increased to contain the entire required argument.

61C7   **Syscall_parmlist parms2 missing.**

Action:
A nonzero parms2 must be specified.

61C8   **Syscall_parmlist bad offset at parms3.**

Action:
The offset at parms3 must contain the correct offset for the required parameters.

61C9   **Syscall_parmlist parms3 truncated.**

Action:
The pfsctl argument must be increased to contain the entire required argument.

61CA   **Syscall_parmlist parms3 missing.**

Action:
A nonzero parms3 must be specified.

61CB   **Syscall_parmlist unexpected opcode.**

Action:
Provide a valid subcommand opcode.

61CC	`Syscall_parmlist` unexpected command.

Action:
Provide a valid DSFS pfsctl command.

61CD	**Vget failure not yet reported.**

Action:
Contact the service representative.

61CE	**Error returned from volStat function.**

Action:
Contact the service representative.

61CF	**The VSAM LDS is not formatted, is not marked as intended for DSFS, and cannot be formatted during mount.**

Action:
Ensure that the VSAM LDS is defined using the ZFS keyword. If it does not automatically format during mount, contact the service representative.

61D2	**Error from `osi_getvnode` token.**

Action:
Contact the service representative.

61D3	**Failed obtaining request block for cross memory call.**

Action:
Contact the service representative.

61D4	**Internal failure during a lock operation.**

Action:
Contact the service representative.

61D5	**Error from osi_getvnode.**

Action:
Contact the service representative.

61D6	**Readdir error.**

Action:
Contact the service representative.

61D7	**Buffer size is 0 on a readdir attempt.**

Action:
Ensure that the readdir buffer size is larger than 0.

61D8	**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 DSFS outage. If however, it repeatedly occurs and a recent system outage did not occur, then contact the service representative.

61D9	**Vnode is unusable, possibly due to an outage/restart of DSFS on a system.**

Action:
Try restarting the application, if that fails to correct the problem then try remounting the utility file system.

61DA	**General vn_remove error.**

Action:
Contact the service representative.

61DD   **Target of rename is a directory that was not empty.**

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

61DE   **Try to remove link from a directory, not allowed.**

Action:
Ensure that the path name is not a directory.

61DF   **Rmdir error.**

Action:
Contact the service representative.

61E0   **General rename error.**

Action:
Contact the service representative.

61E1   **Directory operation on a vnode that is not a directory.**

Action:
Contact the service representative.

61E3   **Error looking up a file.**

Action:
Ensure the object exists. If it does, contact the service representative.

61E5   **Error on mkdir request.**

Action:
Contact the service representative.

61E6   **Operation failed to get vnode token in a directory.**

Action:
Contact the service representative.

61E7   **Create failure.**

Action:
Contact the service representative.

61E9   **An invalid command code was requested.**

Action:
Correct the invalid command code and retry.

61EA   **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.

61EB   **File System operation in progress.**

Action:
Contact the service representative.

61EC   **General VM cache failure.**

Action:
If the return code is ENOSPC (133), the file system or utility file system is full. If this is the case, make more space available. Otherwise, contact the service representative.

61ED   **Write past largest supported DSFS 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.

| 61EE | Process limit was exceeded on write request. |

Action:
Ensure that the user is not attempting to exceed the process file size limit.

| 61EF | 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.

| 61F0 | An open file lost some updates due to a DSFS crash. |

Action:
Contact the service representative.

| 61F1 | Internal failure obtaining memory for operation. |

Action:
An internal failure occurred. Contact the service representative.

| 61F2 | General setattr error. |

Action:
Contact the service representative.

| 61F3 | File sync error. |

Action:
Contact the service representative.

| 61F7 | Error truncating file during open. |

Action:
Contact the service representative.

| 61F8 | Access failure. |

Action:
Contact the service representative.

| 61F9 | A write operation to a read-only file system. |

Action:
The utility file system can only be mounted read-write. Contact the service representative.

| 61FA | Failure getting attr specified in OSI struct. |

Action:
Contact the service representative.

| 61FB | Invalid operation on a zero-link count vnode. |

Action:
Ensure that the object still exists. If it does, contact your service representative.

| 61FC | The operation failed due to a disabled utility file system. A utility file system can be temporarily disabled due to an I/O error, an internal DSFS error, or a data set reopen operation fails. If the utility file system is encrypted, this can be caused by ICSF problems. File requests will fail while the utility file system is disabled. DSFS will attempt to restart. |

Action:
If the utility file system is encrypted, correct any ICSF problem so the utility file system can be re-enabled. Ensure DSFS is restarted and the utility file system remounted. The file can be closed and reopened and the request can be attempted again.

61FD	UNIX System Services has supplied invalid input to DSFS.

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 the service representative.

61FE	Unable to establish the recovery environment.

Action:
Ensure that the DSFS Physical File System is started. If it is active and the error still occurs, contact the service representative.

61FF	Uiomove failed, probably due to user address space errors.

Action:
Contact the service representative.

6200	The data set is not a VSAM linear data set.

Action:
Define the VSAM data set as linear and then retry the operation.

6201	Recovery routine given control.

Action:
The user has been canceled or has issued CTRL-escape. The operation has completed. No action is required.

6202	Utility file system is quiesced but caller does not want to wait.

Action:
The operation returns with a failure.

6203	DSFS address space is terminating, all operations will fail.

Action:
Contact the service representative.

6205	Failure in osi_wait service.

Action:
Contact the service representative.

6206	Task was abended during operation.

Action:
None.

6207	DSFS is shutting down.

Action:
DSFS will not process the requested operation. If this situation persists, contact the service representative.

6208	Admin thread abended.

Action:
An application has issued a pfsctl call (or a user has issued a dsadm command that resulted in a pfsctl call) and the thread running the request in DSFS has abended. Contact the service representative.

6209	Input name is too long.

Action:
Ensure that the input name is not longer than 256 characters. If the name length is valid, contact the service representative.

620A	Task is inactive or was already recovery dispatched or has no recovery stack.

Action:
Contact the service representative.

620B   **Had recovery task already, but it did not wake up.**

Action:
Contact the service representative.

620C   **UIO length is not the size of PC_UNDUB structure.**

Action:
Contact the service representative.

620D   **Input name contains characters not valid in a data set name.**

Action:
Ensure that the input name is correct. If the name is valid, contact the service representative.

620E   **This function is not supported.**

Action:
Contact your service representative.

620F   **Internal failure during creation parameter update.**

Action:
An internal failure occurred. Contact the service representative.

6210   **Unable to write creation parameters to disk.**

Action:
Try the operation again and if the issue persists, contact the service representative.

6211   **Base DSFS directories do not allow attributes to be changed.**

Action:
An attempt to perform a setattr operation on a base DSFS directory was made. DSFS does not directly allow
changes to be made to the root directory, or /txt, /bin, /rec by applications.

6212   **An attempt to use SVC 99 to dynamically allocate a data set or member
                                              failed.**

Action:
This error may be expected if a user does not have proper authority to a data set, or another user has the data
set allocated in a conflicting mode, or the data set no longer exists.

6213   **An attempt to open a data set or member failed.**

Action:
This error may be expected if a user does not have proper authority to a data set. Check the system log for any
messages that may indicate what caused the error.

6214   **Unable to set creation parameters on this directory type.**

Action:
Creation parameters are not allowed on root or base or PDS/PDSE directories.

6215   **The CP_REQ contains a bad length, eye catcher, version, or other input.**

Action:
Correct the CP_REQ fields and try again.

6216   **Unexpected error retrieving or storing data set contents.**

Action:
This error may be expected if IO errors were reported against the data set. Otherwise, contact the service
representative.

6217   **Data format in POSIX file is not able to be stored into the given data
                                              set.**

Action:

Sparse files with holes larger than the maximum record size (LRECL) or text files that have records larger than the data set maximum record size (LRECL) cannot be stored into the data set. The data set will be closed and data will be lost.

6218	Operation failed due to incorrect parent directory type.

Action:
Parent directory must be an HLQ directory.

6219	Attempt to delete the data set member or sequential data set has failed.

Action:
This error may be expected if a user does not have proper authority to a data set.

621A	Length of high-level qualifier directory name, or total length of the new data set name, exceeds allowed maximum.

Action:
Ensure that the name is not longer than the allowed maximum. If the name length is valid, contact the service representative.

621B	High-level qualifier directory name is specified in the HLQ list.

Action:
Ensure that the name belongs in the HLQ list. See *z/OS Data Set File System Administration* for further details about HLQ lists.

621C	An attempt to use the SVC 27 OBTAIN macro failed.

Action:
This error may be expected if data set volume was offline, otherwise contact the service representative.

621D	An error was encountered extracting security information for a user.

Action:
Take the action suggested in message IDFS00336E.

621E	An error was encountered creating an ACEE for a user.

Action:
Take the action suggested in message IDFS00334E.

621F	An error was encountered deleting an ACEE for a user.

Action:
Take the action suggested in message IDFS00335E.

6220	An error was encountered authorizing data set access for a user.

Action:
Take the action suggested in message IDFS00337E.

6221	An error was encountered authorizing a key label for a user.

Action:
Take the action suggested in message IDFS00338E.

6222	Data set access is denied to a user.

Action:
Ensure the user is allowed access to the data set and reissue the request.

6223	Data set key label access is denied to a user.

Action:
Ensure the user is allowed access to the data set key label and reissue the request.

6224	Missing creation parameters. Unable to allocate data set or member.

Action:

Use the dsadm fileinfo command to ensure creation parameters are saved for the parent directory.

6225	Operation failed due to incorrect parent directory type.

Action:
Parent directory must not be the root or `/txt`, `/bin`, or `/rec`.

6226	Length of PDS/PDSE member name exceeds allowed maximum or member name contains invalid characters.

Action:
Ensure that the member name is not longer than the allowed maximum and contains only alphanumeric characters. If both are valid, contact the service representative.

6227	BPXWDYN call failed.

Action:
Contact the service representative.

6229	There is already a data set or member of a PDS or PDSE associated with the target file or directory of the rename.

Action:
Specify a target file or directory name that is not associated with an existing data set or member.

622A	Data set or member does not exist for the source file or directory of the rename command.

Action:
Contact the service representative.

622B	Rename of the data set failed.

Action:
Resolve the problem described in the IDCAMS SYSTEM SERVICES message at the console and issue the command again.

622C	The rename source directory is invalid.

Action:
The rename source directory must be an HLQ or PDS or PDSE directory.

622D	The target data set name is too long.

Action:
Specify a data set name of length 44 or less.

622E	The target member name is too long or contains invalid characters.

Action:
Specify an alphanumeric PDS or PDSE member name of appropriate length.

622F	The target of the operation is a PDS or PDSE directory with open members.

Action:
DSFS does not support renaming or deleting a PDS or PDSE with open members. Try the operation again when all members of the PDS are closed.

6231	Operation failed due to incorrect parent directory type.

Action:
Parent directory must be an HLQ directory.

6232	A user or application attempted to use an unsupported path directory name.

Action:
Specify a supported path directory name and try the command again.

6234	**FSINFO failed because the utility file system is not mounted.**

Action:

Retry the command after the utility file system is mounted.

6235	**BPXWDYN returned success, but failed to allocate the data set.**

Action:

Consult the DSFS documentation and ensure that all necessary creation parameters are assigned to the parent HLQ directory.

6236	**Could not get a list of data sets or PDS members while populating the directory.**

Action:

Check the system log for any messages associated with the data set. After resolving those issues, try and access the directory again. If the problem persists, contact the service representative.

623A	**Internal errors were encountered while creating the the HLQ directory name cache.**

Action:

Contact the service representative.

623B	**Utility file system not mounted.**

Action:

Ensure that the utility file system is mounted. Retry the operation. If it continues to fail, contact the service representative.

623C	**An attempt to save data set creation parameters with RECFM=U attribute on HLQ directories in the /txt or /rec path is not supported.**

Action:

Saving data set creation parameters with RECFM=U attribute on HLQ directories in /txt or /rec path is not supported. Ensure that the HLQ directory path is /bin or remove the RECFM=U attribute from the data set creation parameters with the **dsadm createparm** command and try again.

623D	**DSFS cannot dynamically allocate a data set (or member) because the data set (or member) is already dynamically allocated in a conflicting mode in another path.**

Action:

Wait for the data set or member to be unallocated. Retry the operation. If the problem persists, contact the service representative.

623E	**DSFS cannot enqueue a data set member because the member is already enqueued in a conflicting mode in another path.**

Action:

Wait for the member enqueue to be released. Retry the operation. If the problem persists, contact the service representative.

623F	**DSFS cannot rename or remove open objects.**

Action:

Retry the operation when the object is no longer open.

6240	**The limit of in-use data sets has been reached.**

Action:

Wait for data sets to be unallocated and try the request again. If the problem persists, contact the service representative.

6241	**The utility file system is quiesced.**

Action:

Try the operation again later. If the problem persists, contact the service representative.

6242	The dsadm `createparm` command failed because the HLQ of the high-level qualifier directory name does not match the current user ID.

Action:
Issue the **dsadm `createparm`** from the correct high-level qualifier directory.

6243	An attempt to exclusively lock a vnode failed because the vnode is still in use.

Action:
Look for message IDFS00159I on the operator console or in the system log. This can indicate DSFS has called slow-running system services. If appropriate, gather diagnostic information and consider a DSFS restart. If the problem persists, contact the service representative.

6300-637F	An internal error occurred in a DSFS file system subcomponent. A DSFS reason code has the form ED*xxyyyy*: where *xx* is the subcomponent identifier of the subcomponent that experienced the problem and *yyyy* identifies the location in the subcomponent for the error.

Action:
Contact the service representative.

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