COBOL for AIX
PL/I for AIX

VSAM File System Reply Messages

Version 2.0

SC18-9286-00

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Note!
Before using this information and the product it supports, read the general information under "Notices," on page 53.

First Edition (June 2004)

This edition applies to Version 2.0 of IBM COBOL for AIX and IBM PL/I for AIX and to all subsequent releases and modifications until otherwise indicated in new editions. Make sure that you are using the correct edition for the level of the product.

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About this document

This document provides information about virtual storage access method (VSAM) file system reply messages. Each VSAM reply message is accompanied by a brief explanation of the message, its code point, and its structure, which is defined by parameters.

Use this document in conjunction with the *IBM COBOL for AIX Programming Guide* or *PL/I Set for AIX Programming Guide*.

Who should use this document

This publication is intended for COBOL and PL/I programmers who do problem determination for I/O errors using the VSAM file system.

Accessibility of this document

The English-language HTML format of this document is accessible to visually impaired individuals who use a screen reader.

To enable your screen reader to accurately read syntax diagrams, source code examples, and text that contains the period and comma picture symbols, you must set the screen reader to speak all punctuation.

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Chapter 1. VSAM reply message introduction

A VSAM reply message is returned to the sender of a function to provide the sender with information about some condition that occurred during the processing of the function.

All reply messages contain a severity code parameter that characterizes the severity of the condition reported. In addition, each reply message might define specific additional parameters to be returned with the message.

Chapter 2. Reply message structure

LL	CP	LL	CP	DATA	LL	CP	DATA	LL	CP	DATA

The first length field (4 bytes) indicates the total length of the reply message, and the first code point (2 bytes) is the code point of the reply message which follows.

Subsequent length fields (4 bytes) are for the objects contained in the reply message. The code point words (2 bytes) indicate what data follows.

All length fields represent the length of the data, the code point, and the length field itself.

Mixed-case file names might be converted to upper-case file names. Therefore, any reply messages that contain a filename may not reflect the case that was used as input to the API.

Chapter 3. Reply messages

This chapter provides detailed information about VSAM API reply messages. Each reply message is accompanied by a brief explanation of the message, its code point, and its structure, which is defined by parameters.

These reply messages are returned by the local VSAM file system. See the documentation for your server.

The VSAM reply messages are listed alphabetically in the following table:

Table 1. VSAM Reply Messages Listed Alphabetically

Message ID	Code Point	Message Title
ACCATHRM	X'1230'	Not Authorized to Use Access Method
ACCINTRM	X'1266'	Access Intent List Error
ACCMTHRM	X'1231'	Invalid Access Method
ADDRRM	X'F212'	Address Error
AGNPRMRM	X'1232'	Permanent Agent Error
BASNAMRM	X'1234'	Invalid Base File Name
CLSDMGRM	X'125E'	File Closed with Damage
CMDCHKRM	X'1254'	Command Check
CSRNSARM	X'1205'	Cursor Not Selecting a Record Position
DFTRECRM	X'1204'	Default Record Error
DRCATHRM	X'1237'	Not Authorized to Directory
DRCFULRM	X'1258'	Directory Full
DTARECRM	X'1206'	Invalid Data Record
DUPFILRM	X'1207'	Duplicate File Name
DUPKDIRM	X'1208'	Duplicate Key Different Index
DUPKSIRM	X'1209'	Duplicate Key Same Index
DUPRNBRM	X'120A'	Duplicate Record Number
ENDFILRM	X'120B'	End of File Condition
EXSCNDRM	X'123A'	Existing Condition
FILATHRM	X'123B'	Not Authorized to File
FILDMGRM	X'125A'	File Damaged
FILFULRM	X'120C'	File Is Full
FILIUSRM	X'120D'	File In Use
FILNAMRM	X'1212'	Invalid File Name
FILNFNRM	X'120E'	File Not Found
FILSNARM	X'120F'	File Space Not Available
FILTNARM	X'121E'	File Temporarily Not Available
FUNATHRM	X'121C'	Not Authorized to Function
FUNNSPRM	X'1250'	Function Not Supported

Table 1. VSAM Reply Messages Listed Alphabetically (continued)

Message ID	Code Point	Message Title
HDLNFNRM	X'1257'	File Handle Not Found
INTATHRM	X'125C'	Not Authorized to Open Intent for Named File
INVFLGRM	X'F205'	Invalid Flag
INVRQSRM	X'123C'	Invalid Request
KEYDEFRM	X'123D'	Invalid Key Definition
KEYLENRM	X'122D'	Invalid Key Length
KEYUDIRM	X'1201'	Key Update Not Allowed by Different Index
KEYUSIRM	X'123F'	Key Update Not Allowed by Same Index
KEYVALRM	X'1240'	Invalid Key Value
LENGTHRM	X'F211'	Field Length Error
NEWNAMRM	X'124F'	Invalid New File Name
OBJNSPRM	X'1253'	Object Not Supported
OPNMAXRM	X'1244'	Concurrent Opens Exceeds Maximum
PRCCNVRM	X'1245'	Conversational Protocol Error
PRMNSPRM	X'1251'	Parameter Not Supported
RECDMGRM	X'1249'	Record Damaged
RECINARM	X'1259'	Record Inactive
RECIUSRM	X'124A'	Record In Use
RECLENRM	X'1215'	Record Length Mismatch
RECNAVRM	X'126F'	Record Not Available
RECNBRRM	X'1224'	Record Number Out Of Bounds
RECNFNRM	X'1225'	Record Not Found
RSCLMTRM	X'1233'	Resource Limits Reached on Target System
SRCLMTRM	X'F210'	Resource Limits Reached in Source System
TRGNSPRM	X'125F'	Target Not Supported on Target System
UPDCSRRM	X'124D'	Update Cursor Error
UPDINTRM	X'124E'	No Update Intent on Record
VALNSPRM	X'1252'	Parameter Value Not Supported

The VSAM reply messages are listed in code point order in the following table:

Table 2. VSAM Reply Messages Listed in Code Point Order

Code Point	Message ID	Message Title
X'1201'	KEYUDIRM	Key Update Not Allowed by Different Index
X'1204'	DFTRECRM	Default Record Error
X'1205'	CSRNSARM	Cursor Not Selecting a Record Position
X'1206'	DTARECRM	Invalid Data Record
X'1207'	DUPFILRM	Duplicate File Name
X'1208'	DUPKDIRM	Duplicate Key Different Index
X'1209'	DUPKSIRM	Duplicate Key Same Index

Table 2. VSAM Reply Messages Listed in Code Point Order (continued)

Code Point	Message ID	Message Title
X'120A'	DUPRNBRM	Duplicate Record Number
X'120B'	ENDFILRM	End of File Condition
X'120C'	FILFULRM	File Is Full
X'120D'	FILIUSRM	File In Use
X'120E'	FILNFNRM	File Not Found
X'120F'	FILSNARM	File Space Not Available
X'1212'	FILNAMRM	Invalid File Name
X'1215'	RECLENRM	Record Length Mismatch
X'121C'	FUNATHRM	Not Authorized to Function
X'121E'	FILTNARM	File Temporarily Not Available
X'1224'	RECNBRRM	Record Number Out Of Bounds
X'1225'	RECNFNRM	Record Not Found
X'122D'	KEYLENRM	Invalid Key Length
X'1230'	ACCATHRM	Not Authorized to Use Access Method
X'1231'	ACCMTHRM	Invalid Access Method
X'1232'	AGNPRMRM	Permanent Agent Error
X'1233'	RSCLMTRM	Resource Limits Reached on Target System
X'1234'	BASNAMRM	Invalid Base File Name
X'1237'	DRCATHRM	Not Authorized to Directory
X'123A'	EXSCNDRM	Existing Condition
X'123B'	FILATHRM	Not Authorized to File
X'123C'	INVRQSRM	Invalid Request
X'123D'	KEYDEFRM	Invalid Key Definition
X'123F'	KEYUSIRM	Key Update Not Allowed by Same Index
X'1240'	KEYVALRM	Invalid Key Value
X'1244'	OPNMAXRM	Concurrent Opens Exceeds Maximum
X'1245'	PRCCNVRM	Conversational Protocol Error
X'1249'	RECDMGRM	Record Damaged
X'124A'	RECIUSRM	Record In Use
X'124D'	UPDCSRRM	Update Cursor Error
X'124E'	UPDINTRM	No Update Intent on Record
X'124F'	NEWNAMRM	Invalid New File Name
X'1250'	FUNNSPRM	Function Not Supported
X'1251'	PRMNSPRM	Parameter Not Supported
X'1252'	VALNSPRM	Parameter Value Not Supported
X'1253'	OBJNSPRM	Object Not Supported
X'1254'	CMDCHKRM	Command Check
X'1257'	HDLNFNRM	File Handle Not Found
X'1258'	DRCFULRM	Directory Full
X'1259'	RECINARM	Record Inactive

Table 2. VSAM Reply Messages Listed in Code Point Order (continued)

Code Point	Message ID	Message Title
X'125A'	FILDMGRM	File Damaged
X'125C'	INTATHRM	Not Authorized to Open Intent for Named File
X'125E'	CLSDMGRM	File Closed with Damage
X'125F'	TRGNSPRM	Parameter Not Supported on Target System
X'1266'	ACCINTRM	Access Intent List Error
X'126F'	RECNAVRM	Record Not Available
X'F205'	INVFLGRM	Invalid Flag
X'F210'	SRCLMTRM	Resource Limits Reached in Source System
X'F211'	LENGTHRM	Field Length Error
X'F212'	ADDRRM	Address Error

ACCATHRM (not authorized to use access method)

Purpose

The requester is not authorized to use the specified access method.

Code Point

The code point for this term is X'1230'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

ACCMTHCL

Access method class

- Code point is X'114E'.
- Enumerated values for this parameter are:

X'1433'	RELRNBAM	(Relative by record number access method)
X'1435'	RNDRNBAM	(Random by record number access method)
X'1407'	CMBRNBAM	(Combined record number access method)
X'1432'	RELKEYAM	(Relative by key access method)
X'1434'	RNDKEYAM	(Random by key access method)
X'1406'	CMBKEYAM	(Combined keyed access method)
X'1405'	CMBACCAM	(Combined access access method)

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

ACCINTRM (access intent list error)

Purpose

Indicates that the access-intent-list parameter in the DDMOpen function is in error for one of the following reasons:

- The file does not support the requested access intent.
- The file access capability specified on DDMCreateRecFile does not support the requested access intent.

Code Point

The code point for this term is X'1266'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

ACCMTHRM (invalid access method)

Purpose

Indicates that the function failed because the specified access method was in error. This can happen because:

- The specified access method class is not supported.
- The access method class specified is not a defined access method class.

Code Point

The code point for this term is X'1231'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

8 Error Severity Code

ACCMTHCL

Access method class

- Code point is X'114E'.
- Enumerated values for this parameter are:

X'1433'	RELRNBAM	(Relative by record number access method)
X'1435'	RNDRNBAM	(Random by record number access method)
X'1407'	CMBRNBAM	(Combined record number access method)
X'1432'	RELKEYAM	(Relative by key access method)
X'1434'	RNDKEYAM	(Random by key access method)
X'1406'	CMBKEYAM	(Combined keyed access method)
X'1405'	CMBACCAM	(Combined access access method)

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

ADDRRM (address error)

Purpose

A buffer address of zero was specified when a non-zero value was expected.

Code Point

The code point for this term is X'F212'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

16 Severe Error Severity Code

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- Returned.
- Enumerated value(s) for this parameter:

0001 Record Buffer
0002 Key Buffer
0003 GEA (Get Extended Attribute Buffer)
0004 Record Number Buffer
0005 Get Extended Attribute Reply or Set Extended Attribute Buffer

0006 Record Count Buffer or Returned Record Count Buffer
0007 File Name or Title
0008 File Handle
0009 Flags Buffer
0010 Default Record Buffer
0011 Feedback Buffer

AGNPRMRM (permanent agent error)

Purpose

The function requested could not be completed because of a permanent error condition detected at the target system.

Code Point

The code point for this term is X'1232'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:
  16 Severe Error Severity Code
  32 Access Damage Severity Code
  64 Permanent Damage Severity Code

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

BASNAMRM (invalid base file name)

Purpose

The base file name is not a valid target system file name.

Code Point

The code point for this term is X'1234'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.

- Enumerated value(s) for this parameter:

  8 Error Severity Code

BASFILNM
Base file
- Code point is X'1103'.
- VSAM returns this information.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

CLSDMGRM (file closed with damage)

Purpose

The file was closed as requested by the DDMClose function, but the file was damaged. That is, the file does not contain all the data of the file in the state required by DDM architecture.

If the target system blocks data for storage, the damage can result from failing to write the last block of data being processed to permanent storage.

Other reasons for this condition may also exist, as defined by the target system.

Code Point

The code point for this term is X'125E'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  64 Permanent Damage Severity Code

FILNAM
File name
- Code Point is X'110E'.
- Returned.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

CMDCHKRM (command check)

Purpose

An error occurred in an operating system support function that could not be mapped to an existing message.

Code Point

The code point for this term is X'1254'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  0 Information Only Severity Code
  4 Warning Severity Code
  8 Error Severity Code
  16 Severe Error Severity Code
  32 Access Damage Severity Code
  64 Permanent Damage Severity Code
  128 Session Damage Severity Code

SVRCOD can also contain an operating system error code. If the error code is from the operating system, SRVDGN is 2.

DTALCKST

Data lock status

- Code point is X'115C'.
- Value is X'F1' (TRUE) if the data locks are the same as before the failure.
- Value is X'F0' (FALSE) if the data locks are not the same as before the failure.

CSRPOSST

Cursor position status

- Code point is X'115B'.
- Value is X'F1' (TRUE) if the cursor position is the same as before the function iteration that caused the reply message. TRUE is the only valid value if the severity code is **ERROR**.
- Value is X'F0' (FALSE) if the cursor position is not the same as before the function iteration that caused the reply message or is that the current cursor position is unknown.
- The target server determines whether this information is returned.

RECCNT

Record count

- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.
- Required for requests to insert multiple records in a file.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- Returned.

- The target server determines whether this information is returned.
- Enumerated value(s) for this parameter are:

  1 FileShare parameter on the DDMOpen was promoted to NON because the file is remote over the LAN (for local VSAM file system only).

  2 An operating system error occurred and cannot be mapped to a reply message. The SVRCOD contains the value for the condition the operating system detected.

CSRNSARM (cursor not selecting a record position)

Purpose

The function failed because the cursor is not presently selecting a record position. The cursor is either at the BOF or EOF position, or its position is unknown.

Code Point

The code point for this term is X'1205'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

CSRPOSST

Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST

Data lock status
- Code point is X'115C'.
- Returned.

FILNAM

File name
- Code point is X'110E'.
- Returned.

SRVDGN

Server diagnostic information
- Code point is X'1153'.
- No information is returned.

DFTRECRM (default record error)

Purpose

The request to initialize a file could not be completed because the default record does not meet the target server's criteria. For example, default inactive record initialization cannot be done on sequential files that do not have delete capability.

Code Point

The code point for this term is X'1204'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:
  8 Error Severity Code
  16 Severe Error Severity Code

FILNAM
File name
- Code point is X'110E'.
- Information is returned if available.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

DRCATHRM (not authorized to directory)

Purpose

The user is not authorized to access or update the directory that is specified or implied by a file name.

Code Point

The code point for this term is X'1237'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

SRVDGN
Server diagnostic information

- Code point is X'1153'.
- No information is returned.

DRCFULRM (directory full)

Purpose

The directory specified or implied by a file name is full and does not have space for the file being created or renamed.

Code Point

The code point for this term is X'1258'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

FILNAM

File name
- Code point is X'110E'.
- Information is returned if available.

SRVDGN

Server diagnostic information
- Code point is X'1153'.
- No information is returned.

DTARECRM (invalid data record)

Purpose

A record to be inserted in a file cannot contain a data value that specifies an inactive record to the local data management on the target system.

An inactive record can not be inserted into a non-delete-capable file.

If it is necessary to insert an inactive record into a delete-capable file, send RECINA.

Code Point

The code point for this term is X'1206'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.

- Enumerated value(s) for this parameter:
  8 Error Severity Code
  16 Severe Error Severity Code
  32 Access Damage Severity Code

CSRPOSST
Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- Returned.

FILNAM
File name
- Code point is X'110E'.
- Returned.
- For alternate index files, this is the base file name.

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.
- Required for requests to insert multiple records in a file.

RECNBR
Record number
- Code point is X'111D'.
- Information is returned if available.
- This is the record number of the record being operated on by the function.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

DUPFILRM (duplicate file name)

Purpose
An attempt to create or rename a file failed because it duplicates an existing file name. The target system does not allow duplicates.

Code Point
The code point for this term is X'1207'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

8 Error Severity Code

FILNAM
File name
- Code point is X'110E'.
- Information is returned if available.

SRVDGN
Server diagnostic information
- Code Point is X'1153'.
- No information is returned.

DUPKDIRM (duplicate key different index)

Purpose
The function was not completed because the record sent contains a field that duplicates a key in an index different than the one being used to access the file. The other index does not allow duplicate key records.

The target returns the name of the file(s) in which the duplicate key would occur (ERRFILNM).

Code Point
The code point for this term is X'1208'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:
  8 Error Severity Code
  16 Severe Error Severity Code

CSRPOSST
Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- Returned.

ERRFILNM
Error file name
- Code point is X'1126'.
- Returned.
- Only one Error File Name is required. Additional Error File Names may be specified if they are known.

FILNAM
File name
- Code point is X'110E'.
- Returned.

RECCNT

Record count

- Code point is X'111A'.
- Minimum value is 0.
- Returned for requests to insert multiple records in a file.

RECNBR

Record number

- Code point is X'111D'.
- This is the record number of the record being operated on by the function.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

DUPKSIRM (duplicate key same index)

Purpose

The function was not completed because the record duplicates a key in the index being used to access the file. This index does not allow duplicate key records.

Code Point

The code point for this term is X'1209'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  4 Warning (duplicate record found). Indicates that the API access completed successfully and notifies the caller that the record being returned has a duplicate key. This condition was previously flagged as an error.

  8 Error Severity Code

  16 Severe Error Severity Code

CSRPOSST

Cursor position status

- Code point is X'115B'.
- Returned.

DTALCKST

Data lock status

- Code point is X'115C'.
- Returned.

FILNAM

File name

- Code point is X'110E'.
- Returned.

RECCNT

Record count

- Code point is X'111A'.
- Minimum value is 0.
- Returned for requests to insert multiple records in a file.

RECNBR

Record number

- Code point is X'111D'.
- This is the record number of the record being operated on by the function.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

DUPRNBRM (duplicate record number)

Purpose

A record cannot be inserted at a record position that is occupied by an active record.

Code Point

The code point for this term is X'120A'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

  16 Severe Error Severity Code

CSRPOSST

Cursor position status

- Code point is X'115B'.
- Returned.

DTALCKST

Data lock status

- Code point is X'115C'.
- Returned.

FILNAM

File name

- Code point is X'110E'.
- Returned.

RECCNT

Record count

- Code point is X'111A'.
- Minimum value is 0.
- Returned for requests to insert multiple records in a file.

RECNBR
Record number
- Code point is X'111D'.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

ENDFILRM (end of file)

Purpose
It is not possible to retrieve a record that is outside the BOF, EOF, or some specified file limit with the following functions:

Function
Limits

DDMSetNextRec
Always the last and first record positions, respectively, in the file.

DDMSetPrevious
Always the last and first record positions, respectively, in the file.

DDMSetKeyPrevious
The first record, in key sequence, of the file.

DDMSetKeyNext
The last record, in key sequence, of the file, or the high key limit established by a DDMSetKeyLimits function.

DDMSetNextKeyEqual
The last record (in key sequence) of the file, the high key limit established by a DDMSetKeyLimits function, or the key value specified by the KEYVAL parameter on the DDMSetNextKeyEqual function.

Code Point
The code point for this term is X'120B'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  4 Warning Severity Code

FILNAM
File name
- Code point is X'110E'.
- Returned.

SRVDGN
Server diagnostic information
- Code point is X'1153'.

- No information is returned.

Examples:

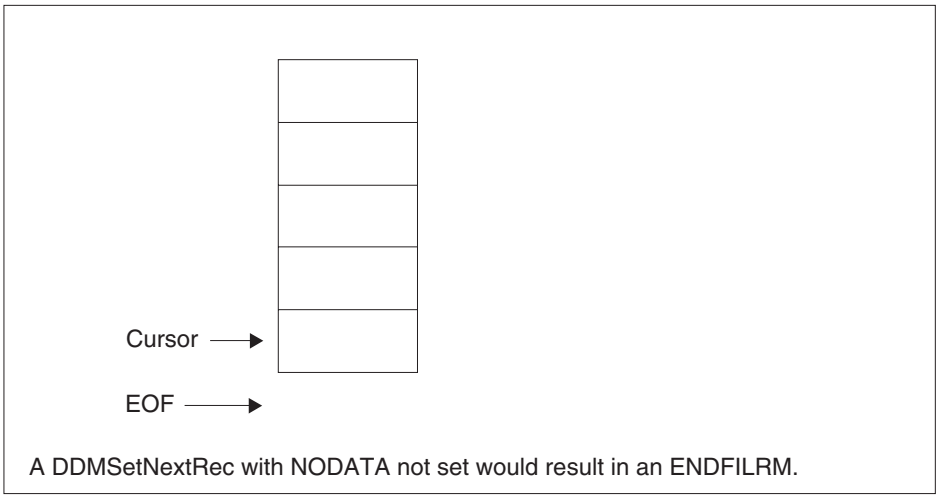

Figure 1. DDMSetNextRec ENDFILRM

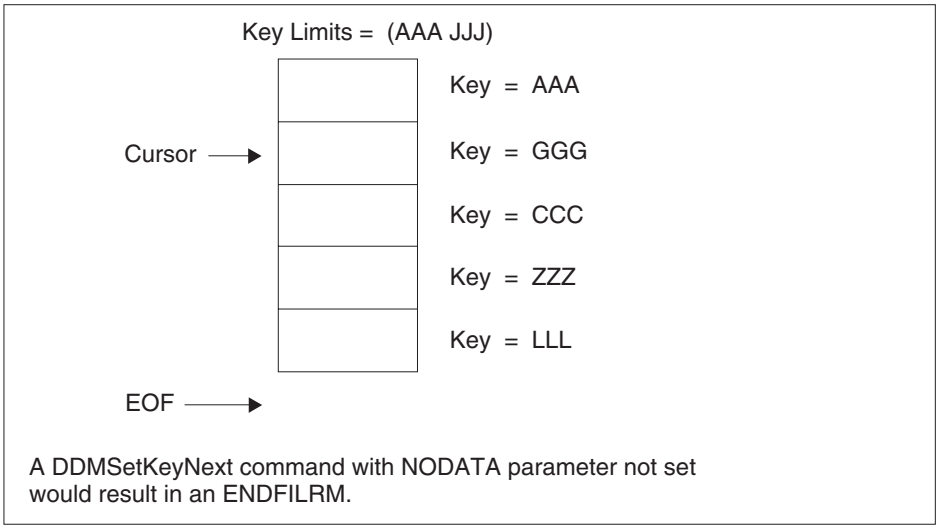

Figure 2. DDMSetKeyNext ENDFILRM

EXSCNDRM (existing condition)

Purpose

A request was made that would have resulted in a condition that already exists.

For example:

- A request to create a file when a file by that name already exists.
- A request to unlock a record that is not locked.
- A request to delete a file that cannot be found.
- A request to delete a record that is already deleted.
- A request to rename a file to the same name.

Code Point

The code point for this term is X'123A'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  4 Warning Severity Code

FILNAM

File name

- Code point is X'110E'.
- Information is returned if available.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

FILATHRM (not authorized to file)

Purpose

The user is not authorized to perform the requested function on the file being accessed.

Code Point

The code point for this term is X'123B'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

FILNAM

File name

- Code point is X'110E'.
- Returned.

RECCNT

Record count

- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- Enumerated value(s) for this parameter:

  0 The operating system denied access to the file.

  1 Access attempt to byte stream file with VSAM API. Byte stream is not a supported record type.

FILDMGRM (file damaged)

Purpose

The file may be damaged. Some of the indications of a damaged file in the local VSAM file system are:

- The file-change date and time recorded by a VSAM API is not the same as the file-change date and time recorded by the file system. The function continues processing (SVRCOD=4).

  Either an aborted DDM application has left the file in an inconsistent state or a non-DDM application has changed the file. The local VSAM file system resynchronizes the file-change date and time if it can get write access to the file, unless a higher severity condition prevents it from doing so. Re-synchronizing the date and time corrects only this particular file-damaged condition, but the file may still be damaged. To verify that the file is not damaged, use DDMCopyFile or DDMUnLoadFileFirst with AccessFlags=DDM_BYPDMG | DDM_RTNINA and inspect the result.

- An index file is not consistent with its base file. The function is rejected (SVRCOD=16).

  The file-change date and time recorded by the VSAM API for the base file is not the same as the base file's file-change date and time that was recorded as an attribute of the index file. Either an aborted DDM application has left the file in an inconsistent state or a non-DDM application has replaced a base file or an index file without replacing all of the files in the file object. The local VSAM file system does not resynchronize the file-change date and time.

Both of the above conditions can exist at the same time for the same index file, causing two FILDMGRM reply messages to be returned, one for SVRCOD=4 followed by one for SVRCOD=16.

Code Point

The code point for this term is X'125A'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  4 Warning Severity Code

  8 Error Severity Code

16 Severe Error Severity Code
32 Access Damage Severity Code
64 Permanent Damage Severity Code

FILNAM
File name
- Code point is X'110E'.
- Returned.

CSRPOSST
Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- Returned.

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.

RECNBR
Record number
- Code point is X'111D'.
- This is the record number of the record being operated on by the function.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.
- Enumerated value for this parameter:

  1 Either an aborted DDM application has left the file in an inconsistent state or a non-DDM application has changed the file.

FILFULRM (file is full)

Purpose
A file is full when a record cannot be added to the end of the file because:
- All record positions in the file have been filled and the file is not extendable.
- All record positions in the file have been filled and the file has been extended the maximum number of times.
- There are not enough bytes available in the file to insert the record and the file is not extendable, or the maximum number of extents have already been made. For example, if there are 45 bytes of space available in the file and an attempt is made to insert a record of 150 bytes, a FILFULRM reply message results.

Code Point
The code point for this term is X'120C'.

Structure
See Chapter 2, “Reply message structure,” on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:
  8 Error Severity Code
  16 Severe Error Severity Code
  32 Access Damage Severity Code

FILNAM
File name
- Code point is X'110E'.
- Returned.

CSRPOSST
Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- Returned.

RECNBR
Record number
- Code point is X'111D'.
- This is the number of the record being operated on by the function.

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

FILIUSRM (file in use)

Purpose
The named file is locked by another user at a level that prevents the requested function from obtaining the locks it requires.

Code Point
The code point for this term is X'120D'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

  16 Severe Error Severity Code

FILNAM

File name

- Code point is X'110E'.
- Returned.

RECCNT

Record count

- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

FILNAMRM (invalid file name)

Purpose

The file name specified on the function is not a valid target system file name.

Code Point

The code point for this term is X'1212'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

FILNAM

File name

- Code point is X'110E'.
- Returned.
- This is the file name that is in error.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

FILNFNRM (file not found)

Purpose

The named file (specified on the function) cannot be found on the target system.

Code Point

The code point for this term is X'120E'.

Structure

See Chapter 2, “Reply message structure,” on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

FILNAM

File name
- Code point is X'110E'.
- Returned.
- This is the file name that is in error.

SRVDGN

Server diagnostic information
- Code point is X'1153'.
- No information is returned.

FILSNARM (file space not available)

Purpose

The file cannot be created or extended because the operating system does not have sufficient space available.

Code Point

The code point for this term is X'120F'.

Structure

See Chapter 2, “Reply message structure,” on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code
  16 Severe Error Severity Code
  32 Access Damage Severity Code

CSRPOSST

Cursor position status

- Code point is X'115B'.
- Returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- Returned.

FILNAM
File name
- Code point is X'110E'.
- Returned.

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

FILTNARM (file temporarily not available)

Purpose
The target system has temporarily made the file unavailable to all users. Either the file is damaged and must be repaired before further use, or a target system process, such as disk compression, prevents immediate use.

Code Point
The code point for this term is X'121E'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:
  - **8** Error Severity Code
  - **16** Severe Error Severity Code
  - **32** Access Damage Severity Code
  - **64** Permanent Damage Severity Code

FILNAM
File name
- Code Point is X'110E'.
- Returned.

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

FUNATHRM (not authorized to function)

Purpose
The user is not authorized to perform the requested function.

Code Point
The code point for this term is X'121C'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

FUNNSPRM (function not supported)

Purpose
The function specified is not recognized or not supported for the specified target object.

Code Point
The code point for this term is X'1250'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

CODPNT
Code point attribute
- Code point is X'000C'.
- Returned.
- Specifies the code point of the function not supported.

SRVDGN

Server diagnostic information
- Code point is X'1153'.
- No information is returned.

HDLNFNRM (file handle not found)

Purpose

The file handle specified is not known or if the handle from DDMLoadFileFirst or DDMUnLoadFileFirst is not used as the handle for a DDMLoadFileNext or DDMUnLoadFileNext, this reply message will be returned.

Code Point

The code point for this term is X'1257'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

SRVDGN

Server diagnostic information
- Code point is X'1153'.
- Handle number is returned.

INTATHRM (not authorized to open intent for named file)

Purpose

The user is not authorized to open the file with the specified processing intent. This message is returned by servers that validate the user's authorization to access a file when the file is opened. Servers can allow the file to be opened without validation of the requester's specified intents if authorizations are subsequently validated for each function used to access an opened file.

Code Point

The code point for this term is X'125C'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

8 Error Severity Code

ACCINTLS
Access intent list
- Code point is X'1134'.
- Specifies the access intents for which the requester is not authorized.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

INVFLGRM (invalid flag)

Purpose
One or more reserved bits have been set in a flag word.

Code Point
The code point for this term is X'F205'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'
- Returned.
- Enumerated value(s) for this parameter:

  16 Severe Error Severity Code

SRVDGN
Server diagnostic information
- Code point is X'1153'
- Returned.
- Reflects the reserved bits that had been set on.

INVRQSRM (invalid request)

Purpose
A request can be invalid for one of the following reasons:
- There is conflict with a user-specified attribute of the file, such as:
  - The function issues a request to delete a record from a non-delete-capable file.
  - The function violates the access intents specified when the file was opened.
- The requester attempted to delete a file that is the base file for some alternate index files.
- The requested function is supported by the access method but not by the file class to which the access method is opened.
- A DDMSetKeyLimits function was issued for a file that was created with keys such that all parts of the key are not ascending.

- A DDM_ALLREC bit was set on a DDMSetNextRec, DDMSetPrevious, DDMSetFirst, or DDMSetLast function for a direct file.
- An alternate index file was specified as the base file of an alternate index file on the DDMCreateAltIndex function.
- The value of LowKeyLim is after the value of HiKeyLim on a DDMSetKeyLimits function.
- An attempt was made to delete or clear a protected file.
- A DDMTruncFile function:
  - For file opened for read only (GETAI, but not MODAI)
  - For a read-only-file (GETCP, but not MODCP).
- The requester attempted to create an alternate index file with a path qualifier that was different than the path qualifier of the base file.

Code Point

The code point for this term is X'123C'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

  16 Severe Error Severity Code

CSRPOSST

Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST

Data lock status
- Code point is X'115C'.
- Returned.

FILNAM

File name
- Code point is X'110E'.
- Returned.

RECCNT

Record count
- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.

SRVDGN

Server diagnostic information
- Code point is X'1153'.
- Information is returned if available.
- Enumerated value(s) for this parameter:

  15 The file is protected.

KEYDEFRM (invalid key definition)

Purpose

The key definition is invalid for the reason specified by the KEYDEFCD parameter.

Code Point

The code point for this term is X'123D'.

Structure

See Chapter 2, “Reply message structure,” on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

FILNAM

File name

- Code point is X'110E'.
- Returned.

KEYDEFCD

Key definition error code

- Code point is X'1164'.
- Returned.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

KEYLENRM (invalid key length)

Purpose

Specifies that the key value provided on a function is not the length required by the requested function.

This can be caused by:

- Specifying a partial key on a function that requires full keys.
- Specifying a key length greater than the maximum length key supported by the target system.
- Specifying a record key value whose length is greater than the defined key length of the file.

Code Point

The code point for this term is X'122D'.

Structure

See Chapter 2, “Reply message structure,” on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

  16 Severe Error Severity Code

FILNAM

File name

- Code point is X'110E'.
- Returned.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

KEYUDIRM (key update not allowed by different index)

Purpose

A different file does not allow its key value (of the record being modified) to be changed.

Code Point

The code point for this term is X'1201'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

  16 Severe Error Severity Code

FILNAM

File name

- Code point is X'110E'.
- Returned.

ERRFILNM

Error file name

- Code point is X'1126'.
- Returned.
- Repeatable.
- Only 1 error file name is required. Additional error file names may be specified if they are known.

CSRPOSST

Cursor position status

- Code point is X'115B'.
- Returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- Returned.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

KEYUSIRM (key update not allowed by same index)

Purpose
The file index being used to access the file does not allow the key value (of the record being modified) to be changed.

Code Point
The code point for this term is X'123F'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:
  8 Error Severity Code
  16 Severe Error Severity Code

CSRPOSST
Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- Returned.

FILNAM
File name
- Code point is X'110E'.
- Returned.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

KEYVALRM (invalid key value)

Purpose
Specifies that the key value provided on a function or a record is not valid.

This can be caused by:

- Specifying a variable-length record that does not contain all of the fields for the defined file key.
- Specifying a key that is not valid for the target server.

Code Point

The code point for this term is X'1240'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

  16 Severe Error Severity Code

CSRPOSST

Cursor position status

- Code point is X'115B'.
- Returned.

DTALCKST

Data lock status

- Code point is X'115C'.
- Returned.

FILNAM

File name

- Code point is X'110E'.
- Returned.

KEYVAL

Key value in error

- Code point is X'1115'.
- Returned.

RECCNT

Record count

- Code point is X'111A'.
- Minimum value is 0.
- Returned for requests to insert multiple records in a file.

RECNBR

Record number

- Code point is X'111D'.
- This is the number of the record being operated on by the function.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

LENGTHRM (field length error)

Purpose

A field was found with incorrect length.

Code Point

The code point for this term is X'F211'.

Structure

See Chapter 2, “Reply message structure,” on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  4 Warning Severity Code

  16 Severe Error Severity Code

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- Returned.
- Enumerated value(s) for this parameter:

  0001 **Maximum Record Length Exceeded** The maximum record length the local VSAM file system supports is 65,000 bytes.

  0002 **Record Buffer Too Small** If the buffer is at least 4 bytes long, and no records have been placed in the buffer, the first 4 bytes contain the length of the record that did not fit.

  0003 **Key Definition Buffer Too Small** If the buffer is at least 4 bytes long, the first 4 bytes contain the required length of the buffer in order for the key definition information to fit.

  0004 **Extended Attribute Reply Buffer Too Small**

  If the buffer is at least 4 bytes long, the first 4 bytes contain the required length.

  0005 **Extended Attribute Input Buffer Length Error**

  0007 **Default Record Buffer Length Error**

  The default record buffer is outside the allowable limits.

NEWNAMRM (invalid new file name)

Purpose

The new file name is not a valid target system file name.

Code Point

The code point for this term is X'124F'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

NEWFILNM
New file name
- Code point is X'114F'.
- This is the file name that is in error.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

OBJNSPRM (object not supported)

Purpose

The object specified as data in a buffer is not recognized or not supported for the function associated with the object. Only active and inactive records are recognized.

OBJNSPRM is also returned if an object is found in a valid collection that is part of a buffer (such as the RECAL collection) that is not valid for that collection.

Code Point

The code point for this term is X'1253'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code
  16 Severe Error Severity Code

CODPNT
Code point attribute
- Code point is X'000C'.
- Returned.
- This is the code point of the object that is not supported.

RECCNT
Record count

- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

OPNMAXRM (concurrent opens exceeds maximum)

Purpose
The number of concurrent DDMOpen functions to the same file exceeds the target server maximum.

Code Point
The code point for this term is X'1244'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

FILNAM
File name
- Code point is X'110E'.
- Returned.

MAXOPN
Maximum number of files opened
- Code point is X'1157'.
- Specifies the maximum number of opens to the same file.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

PRCCNVRM (conversational protocol error)

Purpose
A conversational protocol error occurred.

Code Point
The code point for this term is X'1245'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

  16 Severe Error Severity Code

  128 Session Damage Severity Code

PRCCNVCD

Conversational protocol error code

- Code point is X'113F'.
- Returned.
- Enumerated value(s) for this parameter:

  0001 RPYDSS received by target communication manager

  0002 Multiple DSSs sent without chaining or multiple DSS chains sent

  0003 OBJDSS sent when not allowed

  0004 The next correlation identifier was not ascending

  0005 The request correlation identifier of OBJDSS and RPYDSS are not equal

  0006 EXCSAT was not the first function after the connection was established

RECCNT

Recode count

- Code point is X'111A'
- Minimum value is 0
- Information is returned if available

SVRDGN

Server diagnostic information

- Code point is X'1153'
- No information is returned.

PRMNSPRM (parameter not supported)

Purpose

The parameter specified is not recognized or not supported for the associated function.

Code Point

The code point for this term is X'1251'.

Structure

See Chapter 2, “Reply message structure,” on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.

- Enumerated value(s) for this parameter:

  8 Error Severity Code

CODPNT

Code point attribute
- Code point is X'000C'.
- Returned.
- Specifies the code point of the parameter not supported.

SRVDGN

Server diagnostic information
- Code point is X'1153'.
- No information is returned.

RECDMGRM (record damaged)

Purpose

A record in the file is damaged and cannot be accessed. A damaged record is one in which the Code point is not an active or inactive record.

Damaged records can be bypassed as an option of the following functions:
DDMSetKeyNext
DDMSetNextRec
DDMUnloadFileFirst
DDMUnLoadFileNext

RECDMGRM is returned with a severity code of WARNING for every damaged record that is bypassed. The record number of the bypassed record is also returned. If damaged records cannot be bypassed, this message is returned with a severity code of ERROR or greater.

Code Point

The code point for this term is X'1249'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  4 Warning Severity Code
  8 Error Severity Code
  16 Severe Error Severity Code
  32 Access Damage Severity Code
  64 Permanent Damage Severity Code

CSRPOSST

Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST

Data lock status
- Code point is X'115C'.

- Returned.

FILNAM
File name
- Code point is X'110E'.
- Returned.

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.

RECNBR
Record number
- Code point is X'111D'.
- Information is returned if available.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

RECINARM (record inactive)

Purpose
RECINARM is returned with the following severity codes:

SVRCOD
Reason

X'0004'
This is returned when a DDMSet*xxx* function has moved the cursor to an inactive record.

X'0008' or higher
This is returned when the record is inactive, and the function cannot be executed.

Code Point
The code point for this term is X'1259'.

Structure
See Chapter 2, “Reply message structure,” on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:
  4 Warning Severity Code
  8 Error Severity Code
  16 Severe Error Severity Code

FILNAM
File name
- Code point is X'110E'.
- Returned.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

RECIUSRM (record in use)

Purpose
The record cannot be locked or accessed. This happens because another user has the record locked at a level that prevents the record from being locked or accessed by other users.

Code Point
The code point for this term is X'124A'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:
  8 Error Severity Code
  16 Severe Error Severity Code

CSRPOSST
Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- Returned.

FILNAM
File name
- Code point is X'110E'.
- Returned.

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.
- OPTIONAL.
- Information is returned if available.

RECNBR
Record number
- Code point is X'111D'.
- Information is returned if available.
- This is the number of the record being operated on by the function.

SRVDGN
Server diagnostic information

- Code point is X'1153'.
- No information is returned.

RECLENRM (record length mismatch)

Purpose

The length of a data record does not match the length of the current record position.

If the record class is fixed and the record to be inserted is an active record, the length of the record object must be equal to the length of the record object header (length and code point) plus the length of the record object data.

If the record to be inserted is an inactive record, the record length represented by the inactive record must be the same as the length defined for a record in the file.

Code Point

The code point for this term is X'1215'

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:
  8 Error Severity Code
  16 Severe Error Severity Code

CSRPOSST

Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST

Data lock status
- Code point is X'115C'.
- Returned.

FILNAM

File name
- Code point is X'110E'.
- Returned.

RECCNT

Record count
- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.

RECNBR

Record number
- Code point is X'111D'.
- Information is returned if available.

- This is the number of the record being operated on by the function.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

RECNAVRM (record not available)

Purpose
The requested record cannot be retrieved because it is not available to the file.

Code Point
The code point for this term is X'126F'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:
  8 Error Severity Code
  16 Severe Error Severity Code

CSRPOSST
Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- Returned.

FILNAM
File name
- Code point is X'110E'.
- Returned.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

RECNBRRM (record number out of bounds)

Purpose
The specified record number is outside the boundaries of the file.

Code Point
The code point for this term is X'1224'.

Structure

See Chapter 2, “Reply message structure,” on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

  16 Severe Error Severity Code

CSRPOSST

Cursor position status

- Code point is X'115B'.
- Returned.

DTALCKST

Data lock status

- Code point is X'115C'.
- Returned.

FILNAM

File name

- Code point is X'110E'.
- Returned.

RECCNT

Record count

- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.

RECNBR

Record number

- Code point is X'111D'.
- Information is returned if available.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

RECNFNRM (record not found)

Purpose

The cursor cannot be positioned because a record that satisfies the absolute or relative positioning parameters of a function does not exist.

Code Point

The code point for this term is X'1225'.

Structure

See Chapter 2, “Reply message structure,” on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

  16 Severe Error Severity Code

CSRPOSST

Cursor position status

- Code point is X'115B'.
- Returned.

DTALCKST

Data lock status

- Code point is X'115C'.
- Returned.

FILNAM

File name

- Code point is X'110E'.
- Returned.

SRVDGN

Server diagnostic information

- Code point is X'1153'.
- No information is returned.

RSCLMTRM (resource limits reached on target system)

Purpose

The requested function could not be completed because of insufficient target server resources. Examples of resource limits are:

- The target agent has insufficient memory to keep track of more open files.
- The lock manager cannot obtain another lock.

Code Point

The code point for this term is X'1233'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter

Description

SVRCOD

Severity code

- Code point is X'1149'.
- Returned.
- Enumerated value(s) for this parameter:

  8 Error Severity Code

  16 Severe Error Severity Code

  32 Access Damage Severity Code

  64 Permanent Damage Severity Code

  128 Session Damage Severity Code

CSRPOSST

Cursor position status

- Code point is X'115B'.
- The target server determines whether this information is returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- The target server determines whether this information is returned.

FILNAM
File name
- Code point is X'110E'.
- Returned when the FILNAM parameter is specified for the function. In other cases, the target server determines whether this information is returned.

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.
- Information is returned if available.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

SRCLMTRM (resource limit reached in source system)

Purpose
Some resource has reached its limit in the source system.

Code Point
The code point for this term is X'F210'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'
- Returned.
- Enumerated value(s) for this parameter:

  16 Severe Error Severity Code

SRVDGN
Server diagnostic information
- Code point is X'1153'
- No information is returned.

TRGNSPRM (parameter not supported on target system)

Purpose
The parameter specified cannot be supported on the target system.

Code Point

The code point for this term is X'125F'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated values for this parameter:
  8 Error Severity Code

SRVDGN

Server diagnostic information
- Code point is X'1153'.
- No information is returned.

UPDCSRRM (update cursor error)

Purpose

The cursor cannot be updated to point to the last record inserted in the file.

This error can be sent only if the function set the UPDCSR bit flag for the Access Flags parameter.

Code Point

The code point for this term is X'124D'.

Structure

See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD

Severity code
- Code point is X'1149'.
- Returned.
- Enumerated values for this parameter:
  8 Error Severity Code
  16 Severe Error Severity Code

CSRPOSST

Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST

Data lock status
- Code point is X'115C'.
- Returned.

FILNAM

File name
- Code point is X'110E'.

- Returned.

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.
- Returned for requests to insert multiple records in a file.

RECNBR
Record number
- Code point is X'111D'.
- Information is returned if available.
- This is the number of the record being operated on by the function.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

UPDINTRM (no update intent on record)

Purpose
The record cannot be updated for one of the following reasons:
- An update intent has *not* been placed on the record by the requester.
- The update intent may have been removed because of a previous function issued by the requester.

Code Point
The code point for this term is X'124E'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated values for this parameter:
  8 Error Severity Code
  16 Severe Error Severity Code

CSRPOSST
Cursor position status
- Code point is X'115B'.
- Returned.

DTALCKST
Data lock status
- Code point is X'115C'.
- Returned.

FILNAM
File name
- Code point is X'110E'.
- Returned.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

VALNSPRM (parameter value not supported)

Purpose
The parameter value specified is not recognized or not supported for the named parameter.

The function parameter in error is returned as a parameter in this message.

Code Point
The code point for this term is X'1252'.

Structure
See Chapter 2, "Reply message structure," on page 3 for the general structure of reply message data.

Parameter
Description

SVRCOD
Severity code
- Code point is X'1149'.
- Returned.
- Enumerated values for this parameter:

  8 Error Severity Code

CODPNT
Code point attribute
- Code point is X'000C'.
- Returned.
- Return the code point of the parameter whose value is not supported.

RECCNT
Record count
- Code point is X'111A'.
- Minimum value is 0.
- Required for requests to insert multiple records in a file.

SRVDGN
Server diagnostic information
- Code point is X'1153'.
- No information is returned.

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Glossary

This glossary defines many of the terms and abbreviations used in this publication. If you do not find the term you are looking for, refer to the index or to the *Dictionary of Computing*, SC20–1699.

access method. The part of the DDM architecture that accepts commands to access and process the records of a file.

alternate index file. A file that has a different key path over a base file. The base file can be a keyed, direct, or sequential file.

API. Application Programming Interface.

CDRA. Character Data Representation Architecture.

data description. Specification of the layout of data. The data description of data stored in a file can be viewed as a file attribute.

data stream. All data transmitted through a data channel in a single read or write operation.

direct file. A file that contains records that have a relationship between the contents of the record and the record position at which the record is stored.

LAN. Local area network.

local area network. LAN.

protocol. A set of rules to be followed by communication systems.

record. The basic unit of data stored in a file and transferred between DDM source and target servers.

sequential file. A file in which records are arranged in exactly the same sequence as they were stored into the file.

source system. A system that requests access to data on another system. It is the "source" of the request.

stream file. Stream files contain strings of bytes that can be accessed according to their relative position within the file.

target system. The system that contains data that is being accessed by another system.

VSAM. Virtual storage access method.

List of resources

COBOL for AIX

Installation Guide, SC18-9285

Language Reference, SC18-9257

Programming Guide, SC18-9256

VSAM File System Reply Messages, SC18-9286

PL/I for AIX

Installation Guide, GC18-9327

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Programming Guide, SC18-9328

VSAM File System Reply Messages, SC18-9286

Related publications

AIX®

Commands Reference: Volume 1, a - c, SC23-4115

Commands Reference: Volume 2, d - h, SC23-4116

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Commands Reference: Volume 5, s - u, SC23-4119

Commands Reference: Volume 6, v - z, SC23-4120

General Programming Concepts: Writing and Debugging Programs, SC23-4128

COBOL

COBOL Millennium Language Extensions Guide, SC26-9266

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Version 2.0

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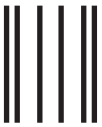

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