



VERSION 7.4

Messages Guide

December 2002

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CONTENTS

About This Book

	<i>Version, Release, Modification</i>	5
	<i>Objectives</i>	5
	<i>Support</i>	6
Chapter 1:	Introduction	7
	<i>Software Environment</i>	8
Chapter 2:	StarBat Messages (STRB00I - STRB99E)	9
Chapter 3:	Information Messages (PDS001I - PDS299I)	21
Chapter 4:	Action Messages (PDS300A - PDS399A)	75
Chapter 5:	Warning Messages (PDS400W - PDS599W)	79
Chapter 6:	Error Messages (PDS600E - PDS999E)	87

ABOUT THIS BOOK

This manual documents messages for Serena™ StarTool® FDM Version 7.3, StarWarp Option Version 6.1, and StarTool FDM StarBat Option. These products, previously called StarTool® and StarWarp for StarTool® recently underwent a name change. The new name more clearly reflects the role of the product within the Serena family of products.

Serena StarTool FDM may also be referred to as File and Data Manager or FDM.

Note that the old product name, as well as variants of the new product name, are used in this document.

VERSION, RELEASE, MODIFICATION

All software created and maintained by Serena has a Version, Release, and Modification level associated with it. Only when the Version or Release number changes (usually annually) will the full customer (those who are up to date with maintenance) be issued new tapes and documentation; other releases can be requested.

This manual describes:

StarTool FDM, the StarTool FDM StarWarp Option, and the StarTool FDM StarBat Option
Version 7
Release 3
Modification 0
Julian release date ... 2002.088

OBJECTIVES

Use this book to investigate the reason for a StarTool FDM error message.

SUPPORT

Serena Software provides technical support on the Internet through the Serena eSupport self-service Web site. To access the eSupport site, go to <http://support.serena.com> and login with your ID and password to see the eSupport Customer Portal. From there, you can:

- Report new issues.
- Search our problem-tracking system for information about existing problems.
- View a knowledge base of frequently asked questions and helpful product hints.
- Query the call tracking database to obtain the current status of an open issue.
- Access our FTP server to download product fixes and documentation in PDF format.
- Subscribe to one of our mailing list servers (LISTSERVE) to receive the latest product information by e-mail.

If you need a password or ID, please e-mail or call the appropriate support department for your country.

	United States, Canada	United Kingdom, Germany, Austria, France, Switzerland, BENELUX
Support Hours	Monday through Friday 5:00 A.M. to 5:00 P.M. (Pacific Time)	Monday through Friday 7:30 A.M. to 6:30 P.M. (United Kingdom Time)
E-mail	support@serena.com	support@serena.com
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Phone	877.696.1850	44 1494 765888
Facsimile	650.522.6698	44 1494 766888
For support in all other countries, please contact your local distributor.		

INTRODUCTION



This manual describes StarTool FDM program messages. In this manual, mentions of StarTool FDM, StarTool FDM StarWarp Option, or StarTool FDM StarBat Option refer to all products unless otherwise stated in the explanation.

StarTool FDM and StarTool FDM StarWarp Option messages use the format PDS nnn x (where nnn is numeric and x is the letter I, A, W or E). StarTool FDM StarBat Option messages use the format STRB nn x (where nn is numeric and x is the letter I or E). Program messages are grouped in numeric ranges by message type or severity as shown in the following table:

Message Range	Description	Reference
STRB00I - STRB99	Information and Error messages	page 9
PDS000I - PDS299I	Information messages	page 21
PDS300A - PDS399A	Action messages (a response is required)	page 75
PDS400W - PDS599W	Warning message (possible error condition)	page 79
PDS600E - PDS999E	Error messages	page 87

During StarTool FDM program execution, program messages and explanations are available through an extended help facility for warning and error messages. In addition, click on any StarTool FDM message in the view log (move the cursor over the PDS nnn or STRB nn portion of the message and press RCHANGE). This displays information from the HELP data set in the view log.

To use the extended help facility after receiving warning or error messages, type `.?` and up to five warning or error message explanations from the last subcommand are requested from the HELP data set by StarTool FDM. In ISPMODE, `?` is equivalent to `.?`. Message explanations are placed into the view log.

To use the line mode normal help facility for any StarTool FDM message, type `HE MSG MSG(PDSxxx,PDSyyy, ...)` where PDS xxx and PDS yyy (or STRB xx) are messages to be explained. You can use this from ISPMODE but the results are returned in line mode (not in the view log).

Chapter 1: Introduction

StarTool FDM honors PROFILE NOMSGID by displaying the program without the message identifiers. Operate with message identifiers enabled so you can reference messages using their identifiers in this section. Type the following command to display StarTool FDM message identifiers:

```
TSO PROFILE MSGID
```

Operate your StarTool FDM sessions with PROFILE WTPMSG to ensure that you have the information you need to diagnose problems. Type the following command to obtain diagnostic messages from MVS.

```
TSO PROFILE WTPMSG
```

Each message number is printed to the left of each page in large letters, followed by the message text. Italicized items in the message definition lines represent variable items that are filled in by StarTool FDM.

SOFTWARE ENVIRONMENT

StarTool FDM runs under the major IBM operating systems:

- MVS/ESA (*any release*)
- OS/390 (*any release*)
- z/OS (*version 1.1*)

In addition, the following environment should be available:

- ISPF and ISPF/PDF (*Version 4.1 or above*)
- TSO/E (*any release or any version*)

STARBAT MESSAGES (STRB001 - STRB99E)

2

STRB01I BSAM/QSAM input is in use

For RECFM=VBS (or Spanned) records, QSAM is for input. Otherwise, input data is read using EXCP, except for the following cases that use BSAM instead:

- Input is not DASD (tape or DD *)
- uncataloged data set
- striped data set
- multivolume data set
- concatenated data set
- PDS(member) referenced in the JCL

STRB02I BPAM input is in use

Input data is read using EXCP; however, for PDSE data sets, BPAM is used instead.

STRB05I DDNAME=ddname DSN=input.data.set OPENED FOR BSAM/QSAM OUTPUT

STRB05I DCB=(RECFM=rfm,LRECL=nn,BLKSIZE=mm) ,VOL=SER=volser

COPYREC and EXCLUDEREC use BSAM except for sequential output data sets that use QSAM.

The MULTICOPY function uses BSAM except for output to a sequential data set or output to a specific member of a PDS in JCL that uses QSAM.

The UPDATE functions change this message to OPENED FOR UPDATE.

STRB10E XX YY= has no ending quote

The named parameter has no ending quote mark. For example:

```
DD01 COPYREC IF=(12,EQ,C'ABC)
```

can cause this message.

STRB11E A parenthesized list is required for parameter YY

The named parameter requires a parenthesized argument list. For example:

```
DD01 COPYREC IF=12
```

can cause this message.

Chapter 2: StarBat Messages (STRB00I - STRB99E)

STRB12E XX YY= parameter contains too many digits

The named parameter must contain less than 10 digits. For example:

```
DD01 COPYREC PRINTHEX=1234567890
```

can cause this message.

STRB13E XX YY= parameter is incorrectly coded

The named parameter is coded with undefined values. For example:

```
DD01 COPYREC IF=(0,EQ,C'AB')
```

can cause this message.

STRB14E XX function identifier is not supported

This function is not currently supported by STARBAT. For example:

```
DD01 FPRINT IF=(12,EQ,C'AB')
```

causes this message.

The following functions are not supported at this time.

1. The formatted copybook print functions FPRINT, FPRINTALL, FPRINTMEM, FPRINTBACK
2. The REFORMAT function that selects and copies records with a copybook
3. DSORG function identifiers like COPYPS, COPYDA, COPYVS, COPYIS and COPYPO

STRB15E XX parameter is invalid

The named parameter is undefined. For example:

```
DD01 COPYREC IXX=12
```

causes this message.

STRB16E XX parameter/subparameter value is incorrect

The named parameter value is incorrect or not defined. For example:

```
DD01 COPYREC ABEND=8 causes the PARAMETER VALUE IS  
INCORRECT message
```

```
DD01 COPYREC WARPDEF=FISCAL=14 causes the SUBPARAMETER IS INCORRECT  
message
```

STRB17E XX YY= hexadecimal parameter has an odd number of digits

The named parameter specifies a hexadecimal parameter incorrectly. For example:

```
DD12 COPYREC IF=(12,EQ,X'123') causes this message.
```

STRB18E XX YY= parameter has invalid hex digits or comma data

The named parameter specifies a hexadecimal parameter incorrectly. For example:

```
DD01 COPYREC IF=(6,EQ,X'1G') causes this message.
```

issued if a hexadecimal parameter contains the value X'6B' (or comma) because character translation is required.

```
DD01 COPYREC IF=(6,EQ,X'C16BC1,C1C2C3') causes this message.
```

STRB19E Data set identifier is incorrectly coded

A data set identifier must have the format DDnn where nn is from 00 through 99. For example:

```
DD123 COPYREC IF=(12,EQ,X'23') causes this message.
```

STRB20E XX is an invalid function identifier

The named function identifier is undefined. DSORG function identifiers like COPYPS, COPYDA, COPYVS, COPYIS and COPYPO are not supported by STARBAT. For example:

```
DD01 COPYXX IF=(12,EQ,X'23') causes this message.
```

STRB21E A function identifier like COPYREC is required

A data set identifier must be followed by a function identifier like COPYREC. For example:

```
DD01 with no following verb causes this message.
```

STRB22E YY parameter is not supported

The named parameter is not currently supported by STARBAT. For example:

```
DD01 COPYREC FPRINT=12 causes this message.
```

The following parameters are not supported:

```
ABEND=3/4
```

```
FEOV=YES
```

```
FPRINT=n
```

```
MAP=name
```

```
SHOW=FORMAT/NUMBER/OFFSET/PICTURE
```

STRB23E A continuation record must start with a blank

The last statement echoed should be a continuation record; however it does not begin with a blank.

For example, the following two statement images cause this message:

```
DD01 COPYREC IF=(12,EQ,  
C'1234')
```

Chapter 2: StarBat Messages (STRB00I - STRB99E)

STRB24E YY null string is not permitted

The named parameter does not support a null string. For example:

```
DD01 COPYREC IF=(12,EQ,C'') causes this message.
```

STRB25E XX YY= string is too long

The named parameter string is too long for this function. For example:

```
DD01 COPYREC IF=(12,EQ,26C'1234567890') causes this message because the
resulting string is longer than 255
bytes.
```

STRB26E YY= compare length is too short

The length specified for a compare scan must be at least one longer than the compare string length. For example, `IF=(10,4,C'1234')` is invalid because the literal is four characters long and that matches the number of columns that are to be scanned.

STRB27E Expected continuation was not found

A continued statement was expected but it was not found before the end of the control statements.

STRB28E XX YY= are not permitted together

The named parameter cannot be used with the named function because they are incompatible. For example, any of the following causes this message:

```
DD01 UPDATEREC NEWMBR=ANY
DD01 UPDATEREC NEWMBRS=ANY--C
DD01 UPDATEREC MOVE=(1,20,1)
DD01 UPDATEREC EXPAND=(1,C,12,15)
```

STRB29E XX YY= parameter is not numeric

The named parameter must be numeric. For example:

```
DD01 COPYREC PRINTHEX=X2 causes this message.
```

STRB31E XX is sequential; do not use a member name with this data set

This data set is not a PDS; you cannot use a DATASET(MEMBER) notation.

STRB32E xx does not support a length element with packed data element

A parameter such as `IF=(10,10,P'1234')` is invalid because scanning for a packed data element is not supported. If, however, you change it to `IF=(10,EQ,P'1234')`, it is valid since scanning for the data value in multiple columns of each record is not required. STRB33E xx yy= parameter has invalid packed digits.

A parameter such as `IF=(10,10,P'123G')` is invalid. Packed data elements can contain an optional plus or minus and numeric digits. G is not a numeric digit in this case.

STRB34E n conversion is not supported for WARP=

The WARP= (22,Z,YY/MM/DD) parameter is invalid because only B (binary), C (character) and P (packed) data types are supported; Z is an unsupported storage type in this example.

STRB35E xx picture and type y are not supported for WARP=

The WARP= (22,B,YY/MM/DD) parameter is invalid because this picture is not supported for binary or packed storage; however, WARP= (22,C,YY/MM/DD) is permitted.

STRB36E xx= keyword is not supported for WARP=

The WARP= (22,B,YY/MM/DD,NODEFINE=Z) parameter is invalid because NODEFINE is an undefined subparameter for WARP.

STRB37E only one of DATE=, ADD=, SUB=, MULT=, OR CONV= may be specified for WARP=

The WARP= (22,C,YY/MM/DD,ADD=12M,DATE=97/11/15) parameter is invalid because DATE=, ADD=, SUB=, MULT= and CONV= are mutually exclusive sub-parameters for WARP.

STRB38E ADD=n/SUB=n is not a supported type like B,D,W,M,Y or blank

The WARP= (22,C,YY/MM/DD,ADD=12Z) parameter is not valid because only codes B (Business days), D (Days), W (Weeks), M (Months), Y (Years) and blank (numeric elements) are defined. In this case, Z is an undefined code type.

STRB39E ADD=nn/SUB=nn specifies an unsupported number of units

The WARP= (22,C,YY/MM/DD,ADD=1234Y) parameter is not valid because it exceeds the permitted maximum for the code type:

B	Business Days allows 0B through 9999B
D	Days allows 0D through 9999D
W	Weeks allows 0W through 999W
M	Months allows 0M through 999M
Y	Years allows 0Y through 999Y
blank	numeric elements allow any value and decimals

STRB40E ACTION=xx/VALID=xx is not a defined value

The WARP= (22,C,YY/MM/DD,ACTION=ANYONE) parameter is not valid because ANYONE is undefined for the ACTION subparameter.

STRB41E DATE=xx does not match the date picture

The WARP= (22,C,YY/MM/DD,DATE=971115) parameter is not valid because the DATE value does not match the picture specified. In this case, DATE=97/11/15 is valid.

Chapter 2: StarBat Messages (STRB001 - STRB99E)

STRB42E ADD=/SUB=/VALID=/ACTION= is not compatible with the data picture

STRB42E ADD=/SUB=/ACTION=/MULT=/DIV=/CONV= is not compatible with the date picture

Format 1: Data – the named parameter is not compatible with a numeric item because:

WARP=(10,B,S999,ADD=1Y)ADD= must be strictly numeric

WARP=(10,C,999,ADD=1234)ADD= does not match picture

WARP=(10,B,9,VALID=MEND)VALID= is not supported with numeric

WARP=(6,B,9,ACTION=MEND)ACTION type is only for date pictures

Format 2: Date – the named parameter is not compatible with a date item because:

WARP=(10,B,YYDDD,ADD=10) requires a code like D/W/M/Y

WARP=(10,B,YYDDD,ACTION=ODROP) is supported only with numeric

WARP=(10,B,YYDDD,MULT=1.10) is supported only with numeric

WARP=(10,B,YYDDD,DIV=1.10) is supported only with numeric

WARP=(10,B,YYDDD,CONV=DEMEUR) is supported only with numeric

STRB43E xx is an invalid holiday exit name

A holiday exit name must be a standard MVS member name. The following examples are all invalid:

WARP=(4,B,YYDDD,HOLIDAY=A23456789)more than eight characters

WARP=(4,B,YYDDD,HOLIDAY=A234*678)invalid character

WARP=(4,B,YYDDD,HOLIDAY=12345678)invalid first character

STRB44E xx picture is not supported for WARP=

The date picture requested is not supported by STARWARP and this date picture is undefined. For example, DD01 COPYREC WARP=(2,C,CCYYY) causes this message.

STRB45E MULT=xx/DIV=xx specifies an invalid number of items

The number for multiply or divide is invalid. A MULT=1.22.3 parameter causes this message.

STRB46E CONV=name conversion name missing

STARWARP could not locate the requested token in the conversion exit. The conversion names contain two 3-character tokens: the starting currency name and the target currency name. The following 3-character names are currently defined:

EUR	European monetary units
BEF	Belgian Franc (smallest currency unit is 1.00)
LUF	Luxembourg Franc (smallest currency unit is 1.00)
DEM	Deutsche Mark
ESP	Spanish Peseta (smallest currency unit is 1.00)

FRF	French Franc
IEP	Irish Punt
ITL	Italian Lira (smallest currency unit is 1.00)
NLG	Netherlands Guilder
ATS	Austrian Schilling
PTE	Portuguese Escudo (smallest currency unit is 0.10)
FIM	Finish Markka
GRD	Greek Drachma (was not eligible to join initially)
DKK	Danish Krone (did not join initially)
SEK	Swedish Krona (did not join initially)
GBP	United Kingdom Pound (did not to join initially)
USD	United States Dollar (not a member)
CAD	Canadian Dollar (not a member)
ASD	Australian Dollar (not a member)
JAY	Japanese Yen (not a member)

STRB47E Member was not found; Return code=8 will be set later

Concatenated partitioned data sets were searched for a member named in a MEMBER= parameter but the member was not present. StarBat continues with the next control statement and sets the return code to eight at termination.

STRB50E Compare outside of record

This OR, IF, CHANGE, CHANGEALL, OVERLAY, OVERALL or STOPIF parameter is referencing data outside of the record boundaries.

STRB53E CHANGE= move outside of record

The CHANGE parameter is attempting to move data outside of the record boundaries.

STRB54E String expansion error

A CHANGE or CHANGEALL parameter cannot expand a string because the record is being updated in place for OPTIONS=JCL or there are insufficient blank characters to replace for the new string.

StarBat dumps the current record, sets the return code to eight and terminates for this type of error.

STRB55E CHANGEALL= move outside of record

The CHANGEALL parameter is attempting to move data outside of record boundaries.

Chapter 2: StarBat Messages (STRB00I - STRB99E)

STRB56E MOVE=/EXPAND=/SUM= beyond input record end

The MOVE, EXPAND or SUM parameter is referencing data outside of the input record boundaries.

STRB57E MOVE= move outside of record

The MOVE parameter is attempting to move data outside of the record boundaries.

STRB59E WARP= outside of record at column nnnn

The WARP parameter is referencing data outside of the record boundaries. The record is dumped and processing continues with the next parameter.

STRB60E OVERLAY= move outside of record

The OVERLAY parameter is attempting to move data outside of the record boundaries.

STRB63E OVERALL= move outside of record

The OVERALL parameter is referencing data outside of the record boundaries on a repeat record scan.

STRB66E FPRINT= is not supported

The FPRINT parameter is not currently supported by StarBat, nor are the following parameters supported:

ABEND=3/4,
FEOV=YES
FPRINT=n
MAP=name
SHOW=FORMAT/NUMBER/OFFSET/PICTURE.

STRB67E FPRINT/FPRINTALL/FPRINTMEM/REFORMAT function is not supported

This function is not supported by StarBat, nor are the following functions supported:

1. The formatted copybook print functions: FPRINT, FPRINTALL, FPRINTMEM, FPRINTBACK
2. The REFORMAT function that selects and copies records with a copybook
3. DSORG function identifiers like COPYPS, COPYDA, COPYVS, COPYIS and COPYPO.

STRB68E Program object data sets are not supported

Output to load members in PDSE data sets (program objects) are not supported.

STRB69E SUM= invalid numeric character; CHAR=C'abcd'; at record n

The data field for SUM does not contain valid numeric information. Valid numeric characters are zoned numbers from X'F0' through X'F9'. The last digit for a numeric character can be signed with a X'CO' or X'D0' zone digit.

STRB70E MEMBERS= and NEWMBR= are incompatible

MEMBERS= is a generic request while NEWMBR= renames a single member. They are incompatible. Use NEWMBRS with MEMBERS or NEWMBR with MEMBER.

STRB71E Sequential input must be copied to a specific output member

The input data set is sequential and the output data set is partitioned. A NEWMEM parameter is required.

STRB72E Invalid packed data in parameter; HEX=X'abcdef'; at record nn

Undefined packed decimal data was encountered for the SUM, IF, OR, CHANGE, CHANGEALL, OVERLAY, REPLALL or STOPIF parameter. This record is dumped so it can be examined.

STRB73E ADD= or SUB= overflowed

The data value in the record added or subtracted from the ADD or SUB parameter cannot be represented in the data picture specified. This is known as an overflow condition.

STRB74E ADD= or SUB= result minus

The data value in the record added or subtracted from the ADD or SUB parameter is negative but the picture specified does not specify an S to represent a sign field.

STRB75E invalid xx at column nnnn; HEX=X'hhhhh'; CHAR=C'ccc'

An invalid data or date condition was detected. The invalid data value is shown in the message in hexadecimal and character formats if appropriate. Following are possible xx message values and short explanations:

DATE SIGN FIELD	Negative date negative sign like P'-1997'
PACKED NUMERIC	Invalid packed numeric digit like P'-19G7'
CHARACTER NUMBER	Invalid character digit like C'19G7'
JULIAN DAY VALUE	Julian value like 97000, 97366 or 97399
MM VALUE IN DATE	Gregorian month greater than 12 or equal to 0
DD VALUE IN DATE	Gregorian day too high for month or equal to 0
-- NOT LEAP YEAR	February 29 is only valid in leap years
FORMATTED DATE	Date picture and date value do not match
INPUT EXIT DATE	Input date exit returned an error code
OUTPUT EXIT DATE	Output date exit returned an error code
HOLIDAY DATE	Holiday exit for ACTION signaled an error
HOLIDAY VALIDATE	Holiday exit for VALID signaled an error
YEAR BEFORE 1582	Dates must be between 1582 and 9999

Chapter 2: StarBat Messages (STRB001 - STRB99E)

STRB76E WARP= derived date is invalid at column nnnn; DATE=ccyy/mm/dd

The date from the ADD or SUB subparameter was an invalid date. The derived date displays in CCYY/MM/DD format. Type an ACTION parameter to correct this error. The following derived dates could cause this type of error message:

OUTPIC=CCYY/MM/DD	1997/00/10
OUTPIC=CCYY/MM/DD	1997/13/10
OUTPIC=CCYY/MM/DD	1997/02/29
OUTPIC=CCYY/MM/DD	1997/02/30
OUTPIC=CCYY/MM/DD	1997/02/00
OUTPIC=CCYYDDD	1997000
OUTPIC=CCYYDDD	1997366
OUTPIC=CCYYDDD	1997399

STRB77E WARP= VALID=nn test failed at column nnnn; DATE=ccyy/mm/dd

The displayed date failed this validity test. The date tested displays in CCYY/MM/DD format. The following tests could cause this type of error message:

OUTPIC=CCYY/MM/DD	for 1997/01/10 and VALID=MEND
OUTPIC=CCYY/MM/DD	for 1997/04/10 and VALID=QFBD
OUTPIC=CCYY/MM/DD	for 1997/12/10 and VALID=YEND
OUTPIC=CCYYDDD	for 1997364 and VALID=YEND

STRB78E name exit/Holiday ACTION/Holiday VALID routine not found

The displayed exit routine was not available for StarBat use. Ensure that the exit routine is available with a JOBLIB, STEPLIB or Linklist data set before retrying the job.

STRB79E No records output, RC=8 will be set later

If a COPYREC, COPYSOME, COPYALL, COPYREV, EXCLUDEREC or MULTICOPY function ends with no records selected, the return code is set to eight at job termination.

STRB80E The input and output data set is the same

For a COPY or EXCLUDE function, the output data set must be different from the input data set unless the data set is partitioned. Use one of the UPDATE functions instead.

STRB81E The WARP parameter is not available; StarWarp is not licensed

Customers with a StarTool FDM license cannot use the StarWarp Option WARP parameter. Contact SERENA customer support if you need this parameter.

STRB82E Data input is forward, can not reverse

A forward reading function like COPYREC cannot be followed by a reverse function like COPYREV unless it uses a different DDNAME reference because the data set direction cannot be changed.

STRB83E This data set is not compatible with JCL

To be eligible for `OPTIONS=JCL` processing, a data set must be partitioned with `RECFM=FB` and `LRECL=80`. This data set does not meet these requirements.

STRB84E Too many OPTIONS=JCL continuations

A JCL statement (`DD`, `EXEC`, `JOB`, `PROC` or `SET`) is limited to a total of 50 statement images including any comment (`/**`) statements before the last image. The current statement contains more than 50 statement images.

STRB85E Missing OPTIONS=JCL continuation

`OPTIONS=JCL` processing noted a member with a missing JCL continuation. StarBat continues with the member but the return code is set to four later.

Chapter 2: StarBat Messages (STRB00I - STRB99E)

INFORMATION MESSAGES (PDS001I - PDS299I)

3

PDS001I TESTMESSAGES -- all numbered messages follow:

Header for CONTROL TESTMESSAGES. Following this message is a list of all numbered StarTool FDM messages. This is provided for testing purposes.

PDS002I Default member is *memname*

Displays the default member name that is acted upon by the current subcommand. The default member name (or member group) also displays on the PDS300A message after the MEM= keyword.

PDS005I End of file

End of file marker was encountered indicating the end of the current member.

PDS006I End of data set

End of file marker was encountered indicating the end of the data set.

PDS010I The alias has been assigned

An ALIAS subcommand completed resulting in a new alias name for the member. For the example ALIAS *mema memb*, member *MEMA* is referred to by either its new alias name, *MEMB* or its main member name, *MEMA*.

PDS015I Your evaluation has been extended until *mmm dd, yyyy*

The AUTH subcommand extended your evaluation until the displayed date. When StarTool FDM is next invoked, any expiration date displayed is changed to this date.

PDS016I The SuperEdit option can be evaluated until *mmm dd, yyyy*

The AUTH subcommand enabled the use of the StarTool FDM SUPEREDIT option until the displayed date. When StarTool FDM is next invoked, the number of days remaining for testing the SUPEREDIT option is displayed in the main menu panel.

Chapter 3: Information Messages (PDS001I - PDS299I)

PDS020I *memname* Attributes are: *attrib1, attrib2, ...*

This ATTRIB message lists the linkage editor attributes of a load member in the form of a list of attributes. Of the displayed values, ATTRIB can modify the DC, LOAD ONLY, NOT EDIT, NOT EXEC, REFR, RENT and REUS attributes.

Module Attributes

DC	downward compatible with linkage editor Level E
E-LEVEL	not linked with linkage editor Level F
LOAD ONLY	can only be brought into storage with a LOAD MACRO
NONE	none of the other linkage attributes
NOT EDIT	cannot be linkage edited again
NOT EXEC	not executable
OVERLAY	overlay load structure
REFR	refreshable (replaceable by a copy during execution)
RENT	reentrant (executable by several tasks simultaneously)
REUS	reusable (executable by several tasks in serial order)
SCTR	scatter load structure (like IEANUC01)
TEST	linked with the TEST option

PDS021I **APF authorized**

This ATTRIB or MAP message indicates that the member is marked as authorized (AC=1) in its directory entry.

PDS022I **Not APF authorized, obsolete linkage editor**

This ATTRIB message indicates that this member is not authorized since it was linked by an obsolete linkage editor. This member cannot be marked as authorized because its directory entry does not contain an area for the APF marker.

To reconstruct this member and any aliases with StarTool FDM and the linkage editor, type MAP member RELINK (and run the generated JCL in the background for the linkage editor).

PDS023I **APF authorized, APF data value greater than 1**

This member was authorized by the linkage editor. The APF value exceeds one. Usually, only the data value of 1 marks a module as authorized. In this case, however, a larger value was used. To display the directory entry, use the DIRENTRY subcommand.

PDS024I **Page alignment is required**

This member requires alignment on a page boundary. You can display and change it with the ATTRIB subcommand. IEBCOPY cannot copy a member with COPYMOD if page alignment is indicated for the module.

PDS025I SSI Information: *hexvalue*

This member has the displayed SSI information in its directory entry. You can display and change its SSI information with the ATTRIB subcommand.

PDS026I MOD:yyyy/mm/dd hh:mm LEV:num BY user BASE:yyyy/mm/dd RD:yyyy/mm/dd

This message lists PDSMAN/MVS statistics associated with this load member. This message is produced by the ATTRIB subcommand.

PDSMAN/MVS Statistics:

MOD:	date and time of last modification
LEV:	modification level number in decimal
BY	updating jobname or TSO userid
BASE:	expiration base date
RD:	last date on which member was read

Chapter 3: Information Messages (PDS001I - PDS299I)

```
PDS030I Global operands: global1, global2, ...
                        {ALIASINFO/NOALIASINFO}
                        {DSNAME (dsn) /NODSNAME/SYSOUT (c) /NOSYSOUT}
                        {LKEDDATE/NOLKEDDATE}
                        {PROMPT/NOPROMPT}
                        {RECOVER/NORECOVER}
                        {TRANSLATOR/NOTRANSLATOR}
                        [NOPARSE      ]
                        [TESTSYNTAX  ]
```

Lists the current CONTROL global values in response to a CONTROL subcommand.

CONTROL Globals:

ALIASINFO	Alias information for MAP and ATTRIB.
NOALIASINFO	No alias information required.
DSNAME(dsn)	Names the data set receiving the session log output. This is combined with a data set status such as OLD, NEW, SHR or MOD.
NODSNAME	No session log is being output to a data set.
SYSOUT(c)	Names the SYSOUT class that is currently receiving the session log output. This is combined with FORM(form) or NOFORM and DEST(destname) or NODEST.
NOSYSOUT	No session log is output to a SYSOUT data set.
LKEDDATE	Linkage edit dates for ATTRIB.
NOLKEDDATE	No linkage edit date information is required.
PROMPT	Yes/no prompts for DELETE, FIXPDS, RENAME, RESTORE and SUBMIT.
NOPROMPT	Yes/no prompts are not required for DELETE, FIXPDS, RENAME, RESTORE or SUBMIT (a yes reply is assumed).
RECOVER	Attempt ESTAE recovery after an ABEND.
NORECOVER	Do not attempt ESTAE recovery
TRANSLATOR	Translator IDR outputs are required from HISTORY.
NOTRANSLATOR	No translator information is required from HISTORY.
NOPARSE	Test parse code by using the TSO parser (IKJPARSE).
TESTSYNTAX	Validate syntax only (subcommands will not be executed).

```
PDS031I Input buffering: type
                        {BPAM}
                        {SINGLE}
                        {DOUBLE}
                        {MULTIPLE}
                        {RETAIN (numt) }
```

Lists the current input buffering mode in response to a CONTROL subcommand.

CONTROL Input buffering:

BPAM	EXCP is not used for a PDSE data set; BPAM is used instead.
SINGLE	Read single (each read obtains one physical block).
DOUBLE	Read double (each read obtains two physical blocks).
MULTIPLE	Read multiple (each read obtains an entire track).
RETAIN(numt)	Specifies the number of disk track images (one through nine) kept in storage buffers. Each new member read operation searches these buffers before performing an actual read multiple EXCP operation. EXCP operations are only saved during the execution of a single subcommand. The buffers are reset for each new subcommand.

The input buffering type (BPAM, SINGLE, DOUBLE, MULTIPLE or RETAIN) is reset for each data set allocated according to the data set organization or the device type on which the data set resides. RETAIN buffering is used for device types that support the READ MULTIPLE CCW and DOUBLE is used otherwise. BPAM mode is automatically selected for PDSE data sets and cannot be selected explicitly.

For maximum I/O efficiency, use RETAIN buffering since only a single I/O is required to input a track of data. You can avoid many EXCPs if the disk track buffers already contain the requested information.

PDS032I TESTCPULoop -- CPU loop follows:

CONTROL TESTCPULoop – performs a CPU loop for program testing.

PDS033I TESTABEND -- System 0C1 follows:

CONTROL TESTABEND – performs an ABEND (S0C1 or other ABEND) for program testing.

PDS034I TESTOUTLoop -- This data repeats

CONTROL TESTOUTLoop – performs an output loop for program testing. The message line is repeated indefinitely.

PDS035I TESTREAD -- EXCP Return Code=nn; NEXT TTR ADDRESS IS ttraddr

CONTROL TESTREAD – verifies the operation of the input EXCP routine by using an initial TTR of 000001 for each of the following EXCP tests. The TESTREAD Return code should be zero.

CONTROL EXCP Tests:

BPAM	Read using a BPAM DCB for PDSE data sets only. The other tests are not executed for PDSE data sets. The return code should be 00 and NEXT TTR ADDRESS should be 000001 (it is not set).
SINGLE	Read single (each read obtains one physical block). The NEXT TTR ADDRESS should be 000002 if sufficient data is available.
DOUBLE	Read double (each read obtains two physical blocks). The NEXT TTR ADDRESS should be 000003 if sufficient data is available.

Chapter 3: Information Messages (PDS001I - PDS299I)

MULTIPLE Read multiple (each read obtains an entire track). If the disk unit supports the READ MULTIPLE CCW, the NEXT TTR ADDRESS should be 000101 if sufficient data is available.

If this disk unit does not support the READ MULTIPLE CCW, a PDS892E message displays, and the NEXT TTR ADDRESS is 000003 (double buffering is actually used).

Return codes from EXCP have the following meanings:

RC=00	Successful read
RC=04	End of member
RC=08	End of data set
RC=12	I/O error

PDS036I Largest free storage area is *nnnK*

Displays the size of the largest free storage area fragment in 1024 or K-byte units. This message is in response to each CONTROL subcommand.

PDS037I Installation defaults from *modname yyyy/mm/dd hh:mm*

A header for a list of StarTool FDM installation defaults loaded from the defaults CSECT. It also shows the date and time of the defaults module assembly. It is in response to a CONTROL DEFAULTS command.

The modname is PDS#OPT4. If this module was not available, modname is PDS#DFLT. During the initialization process, a CSV003I REQUESTED MODULE PDS#OPT4 NOT FOUND message (or equivalent) is issued by MVS to document a failure in loading PDS#OPT4.

PDS038I Use of *subname* is restricted

During the StarTool FDM installation process, your installation chose to restrict your use of the listed subcommand or subcommand/operand combination. If you need this restricted resource, contact the person responsible for StarTool FDM installation. This message is in response to a CONTROL RESTRICTED command.

PDS040I *memname* has been deleted

DELETE completed and the identified member name was removed from the data set directory.

PDS041I THIS DATA SET IS A PDSE; IT WILL BE REORGANIZED

The COMPRESS subcommand reorganizes PDSE data sets by copying all members to a temporary PDSE data set. The system resets the source data set and copies the copied members back into the source data set.

This sets the PDSE data set equivalent to a newly allocated PDSE data set before copying the members back in. Data set fragmentation and the high-used page for this data set is reduced so that a TRIM operation or FIXPDS RELEASE can return unused disk space to the system.

PDS046I largest area above the line is nnnnM

Displays the size of the largest free storage fragment in 1024K bytes or 1 Megabyte units. This message is in response to each CONTROL subcommand.

PDS049I Concatenation nn of mm

This CHANGE message is feedback when file allocation is performed to provide the current NUM(nn) operand and the maximum NUM(mm) operand.

PDS050I memname1 will be moved

Used by FIXPDS to identify members that need to be moved out of the way of a changed member directory in response to a FIXPDS subcommand with a EXPANDDIR or FREEDIR keyword.

PDS051I memname was {moved/copied/replaced/combined/separated}; input=count

Issued by the COMBINE, COPY, DUP, FIXPDS, REPRO and SEPARATE subcommand to identify members copied or moved, and their status and record counts.

PDS052I Real storage is nnnM; expanded storage is nnnM

This CONTROL LISTENV message displays the amount of real and expanded storage on the active processor in 1024K bytes or 1 Megabyte units.

PDS053I LOAD parameter is 'uuuuxxln'/blank

This CONTROL LISTENV message displays the LOAD parameter used to initiate the last IPL from the system control (SYSCTL) frame. If all defaults were taken, blank displays.

An example message is as follows: PDS053I LOAD parameter is '054100M '

The displayed parameter contains up to eight characters defined as shown below.

IDENTIFIER	START	LENGTH	MEANING
uuuu	0	4	UCB device name
xx	4	2	suffix for LOADxx
l	6	1	Message processing
n	7	1	Alternate NUCLEUS

IPL uses the UCB device name to locate the I/O definition file (VSAM) data sets. If no device name is specified, IPL assumes the LOADxx member resides on the system residence (SYSRES) volume and it searches that volume for a SYSn.IPLPARM or SYS1.PARMLIB data set.

The LOADXX member specifies information about your I/O configuration, an alternate NUCLEUS identifier, a NUCLSTxx member, information about the master catalog and the IEASYSxx member that MVS is to use to configure your system.

Chapter 3: Information Messages (PDS001I - PDS299I)

You can type the Message processing character as:

- P Do not display informational messages and prompt the operator overriding LOADxx
- A Display all messages and prompt the operator (this also overrides LOADxx information)
- M Display all messages but do not prompt the operator (the system uses LOADxx)
- . Do not display informational messages and do not prompt the operator (the system uses LOADxx).

You can type the Alternate NUCLEUS identifier (0-9) to request an IPL from a NUCLEUS other than IEANUC01.

PDS054I Totals - Memembers=nn; Input=mm; characters=ll

Issued after a COMBINE, COPY or SEPARATE subcommand to summarize the number of members processed, the total records input, and the total characters output.

SEPARATE does not count ". / ADD" lines in record or character counts.

```
PDS059I Storage map      START      END      SIZE
-----
E-PRIVATE      09100000  7FFFFFFF  1,948,672K
. . . . .
```

This CONTROL LISTENV message maps the various types of system storage on your processor.

The displayed fields are:

- LABEL Name of the storage area (an E- prefix means extended)
- START Hexadecimal start address for this storage area
- END Hexadecimal end address for this storage area
- SIZE Size of this storage area in 1024 or K-byte units.

A V=R region is mapped if it is present on your system even though it is mapped over the beginning of the PRIVATE area.

Unused storage areas are not displayed. For example, the following example does not show a FLPA data line.

```

PDS059I Storage map          START          END          SIZE
PDS059I -----
PDS059I E-PRIVATE           09100000    7FFFFFFF    1,948,672K
PDS059I E-CSA               042C7000    090FFFFFFF    80,100K
PDS059I E-MLPA              042C6000    042C6FFF     4K
PDS059I E-FLPA              042C3000    042C5FFF     12K
PDS059I E-PLPA              02837000    042C2FFF     27,184K
PDS059I E-SQA               01A9F000    028366BD     13,920K
PDS059I E-NUCLEUS (R/W)     012E3000    01A9EFFF     7,920K
PDS059I E-NUCLEUS (R/O)     01000000    012E24FF     2,956K
PDS059I ----- 16 Megabyte Boundary Line -----
PDS059I NUCLEUS (R/O)       00FDD000    00FFFFFF     140K
PDS059I NUCLEUS (R/W)       00F92000    00FDC70F     300K
PDS059I SQA                 00E82000    00F91FFF     1,088K
PDS059I PLPA                00C85000    00E81FFF     2,036K
PDS059I MLPA                00C82000    00C84FFF     12K
PDS059I CSA                 00800000    00C81FFF     4,616K
PDS059I PRIVATE             00005000    007FFFFF     8,172K
PDS059I V=R AREA            00005000    00024FFF     128K
PDS059I System              00001000    00004FFF     16K
PDS059I PSA                 00000000    00000FFF     4K
    
```

PDS060I Translator history by CSECT -

csect yyyy/mm/dd translatorname vermod [yyyy/mm/dd plstrans vermod]

Issued in response to a HISTORY subcommand with the TRANSLATOR keyword (or without the keyword if CONTROL TRANSLATOR is the default). Output for the PDS060I message is in order by creation date (descending) and CSECT name (ascending).

A header for assembler or compiler IDR records. The second half of a translator detail line is output only if a CSECT was processed by a PLS translator.

In the following messages, two CSECTS are reported on. Both were processed by Assembler H:

```

PDS060I Translator history by CSECT -
IKJEFT03  1994/09/22  5741SC103-ASMH  V02 M02
IEFBR14   1993/11/22  5741SC103-ASMH  V02 M02
    
```

PDS061I AMASPZAP update history by CSECT -

csect yyyy/mm/dd userid/idrdata

Issued in response to a HISTORY subcommand with the ZAP keyword (or ZAP default). Output for the PDS061I message is in order by ZAP date (descending) and CSECT name (ascending).

Chapter 3: Information Messages (PDS001I - PDS299I)

A header for AMASPZAP IDR records. In the following messages, CSECT IEFBR14 has only a single ZAP recorded while CSECT IKJEFT03 has two different ZAPs (both on the same date):

```
PDS061I AMASPZAP update history by CSECT -
IEFBR14      1994/06/14      HABLX
IKJEFT03     1993/11/04      HABL
IKJEFT03     1993/11/04      HABL
```

PDS062I User-supplied update history by CSECT - csect yyyy/mm/dd identifier

Issued in response to a HISTORY subcommand that is displaying USERDATA (or SYSMOD) data. Output for the PDS062I message is in order by date (descending) and CSECT name (ascending).

A header for user-supplied IDR records. In the following messages, CSECT IKJEFT03 has user-supplied data of UZ65337 and CSECT IEFBR14 has user-supplied data of UZ54057:

```
PDS062I User-supplied update history by CSECT -
IKJEFT03     1992/12/04      UZ65337
IEFBR14      1991/11/29      UZ54057
```

PDS063I ChangeMan module *modname* package *packageid* date *yyyy/mm/dd* time *hh:ss*

Displays ChangeMan® information from the IDR record. It is issued in response to a HISTORY subcommand for a ChangeMan module.

<i>modname</i>	name of the ChangeMan module
<i>package-id</i>	package identifier
<i>yyyy/mm/dd</i>	date of the last update
<i>hh:ss</i>	time of the last update

PDS064I Last link-edited on *yyyy/mm/dd* by LKED *lkname-type* *Vnn Mmm*

Displays the last linkage edit date and linkage editor identification information. This message is issued in response to an ATTRIB or HISTORY subcommand for a load member.

<i>yyyy/mm/dd</i>	date of the last linkage edit
<i>lkedname</i>	translator code for the linkage editor
<i>-type</i>	linkage editor type by common name (this output is only provided by the HISTORY subcommand. It is S360LKED, MVSLKED(F), MVSLKED, DFPLKED, DFP370LKED or BINDER).
<i>Vnn</i>	linkage editor version number
<i>Mmm</i>	linkage editor modification level

PDS065I Main member name updated for member: *memname*

Issued in response to a RENAME subcommand for a load member that has aliases. The directory entry of each alias entry must be updated to point to the new main member name. The PDS065I message is issued for each alias of the main member that is being renamed to document the directory entry changes.

PDS066I Member is an alias for: *memname*

Issued by the MAP subcommand if CONTROL ALIASINFO is the default. It is also issued in response to an ATTRIB subcommand with the ALIASINFO keyword (or without the keyword if CONTROL ALIASINFO is the default).

This member is an alias. The main member is identified in the PDS066I message.

PDS067I Member has *n1* IDR blocks with space for *n2* IDR entries

Issued as a summary message in the HISTORY subcommand for AMASPZAP IDR records. AMASPZAP IDR records are initialized by the linkage editor and used by AMASPZAP and other programs like StarTool FDM to keep track of changes to a module by CSECT, date and userid.

The first number (*n1*) is the total number of AMASPZAP IDR records present in this member. The second number (*n2*) is 19 times the first number because each AMASPZAP IDR record contains space for 19 ZAP IDR entries.

Chapter 3: Information Messages (PDS001I - PDS299I)

PDS068I *n1* IDR entries are in use; *n2* are available for use

Issued as a summary message in the HISTORY subcommand for AMASPZAP IDR record entry usage. AMASPZAP IDR records are initialized by the linkage editor and used by AMASPZAP and other programs such as StarTool FDM to keep track of changes to a module by CSECT, date and userid.

The first number (*n1*) is the total number of AMASPZAP IDR entries used in this member. The second number (*n2*) is the number of AMASPZAP IDR entries that are still available for use.

PDS071I The following options are available:

Issued in response to an OPTIONS subcommand to list the subcommands that can be used on the current data set.

A header for the list of available subcommands.

PDS072I CLIST conversion is being performed

CLIST libraries are RECFM(FB) with LRECL(80) or RECFM(VB) with LRECL(255). The DUP subcommand performs a CLIST conversion on the current members while copying them to the other library. The resulting members are usable by the CLIST processor.

CLIST conversion entails assigning new sequence numbers to each line and breaking up long lines into multiple short lines while maintaining normal CLIST format rules.

PDS073I *memname* has been refreshed

The LLA subcommand completed successfully. The LLA directory entry for this member was refreshed and its directory entry was updated to point to a new member.

If the MVS system level does not support LLACOPY (system level is below MVS Version 3.1.3), the BLDL macro is executed instead. For this message, it means that the member is present in the data set.

PDS074I *memname* has been removed

The LLA subcommand completed successfully. The LLA directory entry for this member was removed because the member is no longer present in this data set.

If the MVS system level does not support LLACOPY (system level is below MVS Version 3.1.3), the BLDL macro is executed instead. For this message, it means that the member is not present in the data set.

PDS075I CLIST conversion requires VB,255 and FB,80 data sets

For the COPY or DUP subcommand, a CLIST keyword was specified but the data sets were not suitable for a StarTool FDM CLIST conversion; normal member copies are still performed.

The source data set must have DCB=(RECFM=VB,LRECL=255) or DCB=(RECFM=FB,LRECL=80) and the target data set must have the opposite characteristics. The COPY and DUP subcommands can only convert between FB CLIST data sets and VB CLIST data sets.

PDS080I {OUTCOPY/LOGCOPY} DCB is closed

Issued in response to either an OUTCOPY subcommand with the keyword CLOSE or a CONTROL subcommand with a NODSNAME or NOSYSOUT keyword. This message means that the OUTCOPY file or the session copy data set was closed successfully.

PDS082I Volume name: *volser* UNIT = *ucb* TYPE = *unittype*

Issued by the VUSE subcommand to identify the volume name, address and unittype (for example, 3380K or 3390M3).

PDS083I Volume status: *mntstat usestat allocstat onlinstat*

Issued by the VUSE subcommand to indicate how the volume is currently being used. The following data values are displayed in each status field.

mntstat:	`REMOVABLE	RESERVED	RESIDENT
usestat:	`PRIVATE	PUBLIC	STORAGE
allocstat:	`ALLOCATED	UNALLOCATED	
onlinstat:	`ONLINE	OFFLINE	OFFLINE PENDING

PDS085I Blank DSCB's: *nmf* or *nmp*%

Issued by the VUSE subcommand to indicate the number and percent of available DSCBs in the volume VTOC. These free DSCBs are available to represent new data sets (with Format 1 DSCBs) or additional extents (with Format 3 DSCBs) for current data sets.

nmf	total number of free DSCBs on this volume
nmp	percentage of DSCBs on this volume which are free

If the free DSCBs reach zero on a volume, you cannot add data sets to the volume (even if space is available).

PDS086I Free indexed VTOC VIR's: *number*

Issued by the VUSE subcommand to indicate that this volume contains an indexed VTOC and the number of available VTOC Index Records in the VTOC index. Index records build data set index tables. These are managed and searched instead of the traditional VTOC which is a BDAM data set.

If this number reaches zero for a volume, you cannot add data sets to the volume (even if space is available).

Chapter 3: Information Messages (PDS001I - PDS299I)

PDS087I Free space: *mt* tracks or *mp%*; *me* extents including *mc* full cylinders

Issued by the VUSE subcommand to indicate the total free space available on a volume.

<i>mt</i>	total free space in tracks on this volume
<i>mp</i>	percentage of disk tracks on this volume that are free
<i>me</i>	total number of free extents on this volume
<i>mc</i>	total full free cylinders on this volume

PDS088I Volume record definition dump:

Issued by the VUSE subcommand to indicate that this volume is SMS managed and as a header for a dump of the SMS volume record definition area. Following this dump, useful fields are interpreted with PDS186I messages.

PDS089I	LARGEST EXTENTS:	#1	#2	#3	#4	#5
PDS089I	CYL.TRKS	228.06	134.14	10.00	3.02	2.01
PDS089I	TRACKS	3426	2024	150	47	31

This message is issued by the VUSE subcommand to display up to five of the largest free extents in sorted order in CYL.TRKS and TRACKS notation. The above sample shows a volume with multiple free extents. The message is interpreted as follows:

Extent 1 (largest):	3426 tracks with 228 cylinders and 6 tracks
Extent 2 (next):	2024 tracks with 134 cylinders and 14 tracks
Extent 3 (next):	150 tracks with 10 cylinders and no tracks
Extent 4 (next):	47 tracks with 3 cylinders and 2 tracks
Extent 5 (next):	31 tracks with 2 cylinders and 1 track

PDS090I *mem1* has been renamed to *mem2*

RENAME completed successfully. MEM1 is now known as MEM2.

PDS091I *memname* has been restored

RESTORE completed successfully. The identified member name is added to the data set directory. You can use the member for any purpose.

PDS092I {*AMODE/RMODE*} information updated for member: *memname*

Issued in response to an ATTRIB subcommand with a RMODE (RMODEANY or RMODE24) or AMODE (AMODEANY, AMODE24, or AMODE31) keyword for a load member that has aliases.

The directory entry of each alias entry must be updated to reflect the new AMODE/RMODE of the main member name. The PDS092I message is issued for each updated alias of the main member.

AMODE operands affect the module's addressing mode and the RMODE operands control the module's residence mode (above or below the 16 Megabyte line).

```

PDS093I ADDRESS MODULE LENGTH TYPE APF ESR NP ASS AR LOCKS AMODE DESC
SVC nnn hexaddr module hexlen t APF ESR NP ASS AR lcosd 24/31 doc
or
ESR(mm) hexaddr module hexlen t APF NP ASS AR lcosd 24/31 doc
  
```

Documents an SVC or ESR entry as output by SVCMAP.

SVC nnn	SVC entry <i>nnn</i> (where <i>nnn</i> varies from 0 through 255).
ESR(mm)	ESR entry <i>mm</i> (where <i>mm</i> varies from 0 through ESR limit).
ADDRESS	Hexadecimal entry point.
MODULE	The name of the module containing the entry point displayed. If the module displays as ???, it was not found in the nucleus LPA or MLPA. It means that this SVC was dynamically added. If an SVC entry is unused, the module name is IGCERROR. For unused ESR entries, the module name is IGXERROR.
LENGTH	Hexadecimal length of the module if known; 0 otherwise.
TYPE	SVC type (1, 2, 6 or 3/4).
APF	Flag if APF authorization is required.
ESR	Flag if the SVC is a ESR (Router).
NP	Flag if the SVC is non-preemptive.
ASS	Flag if the SVC can be assisted.
AR	Flag if the SVC can be issued in AR ASC.
LOCKS	Flags for locks needed as follows: <ul style="list-style-type: none"> L Local lock C CMS lock O OPT lock S SALLOC lock D Dispatcher lock
AMODE	Addressing mode of this routine (24 or 31).
DESCRIPTION	MACRO associated with this SVC.

PDS094I *module* Dump, **LENGTH=length**

A header for a dump of a SVC module. If module is ???, the module could not be located in the nucleus, LPA or MLPA and that only the DEFAULT length of the module is dumped. It means that this SVC was dynamically added.

Length is the decimal length of the module that is dumped in the following lines. The dump begins at the offset of the module indicated by the address from the SVCTABLE entry. The start of an SVC module is always known but the length may be incorrect since it is calculated to be the rest of the module regardless of other entry points.

Chapter 3: Information Messages (PDS001I - PDS299I)

The format of the dump is six or eight bytes of storage address, six bytes of hexadecimal offset into the module, followed by sixteen hexadecimal bytes of the module at that offset, and the character equivalent surrounded by asterisks.

PDS095I *module* Disassembly, LENGTH=*length*

A header for a disassembly of a SVC module. If module is ???, the module could not be located in the nucleus, LPA or MLPA and that only the DEFAULT length of the module is displayed. It means that this SVC was dynamically added.

Length is the decimal length of the module that is formatted in the following lines. The display begins at the offset of the module indicated by the address from the SVCTABLE entry. The start of an SVC module is always known but the length may be incorrect since it is calculated to be the rest of the module regardless of other entry points.

The format of the display is six or eight bytes of storage address, six bytes of hexadecimal offset into the module, followed by the operation code, reconstructed operands, the hexadecimal bytes of the module at that offset, and the character equivalent surrounded by asterisks.

```
PDS096I DEVICE MB/VOL TRACKS #CYLS TRK/CYL BYTE/TRK DSCB/TRK PDS/TRK
3390M3 2,838 50,085 3,339 15 56,664 50 45
```

Issued by the VUSE subcommand to display device characteristics and capacity information for the current disk volume. This message shows the device capacity for an actual disk of this type. The actual device capacity may be smaller.

If the ALL keyword is requested, device characteristics and capacity information is provided for all supported MVS devices.

The above sample shows a sample output for a triple density 3390; with fields as follows:

DEVICE	Device name (normally four characters model number and model type).
MB /VOL	Volume capacity in Million Bytes. This is from BYTE/TRK * TRACKS / 1000000.
TRACKS	Volume capacity in tracks.
#CYLS	Volume capacity in cylinders.
TRK/CYL	Number of tracks in a cylinder.
BYTE/TRK	Maximum number of bytes that can fit on a track.
DSCB/TRK	Maximum number of DSCB blocks (for a VTOC) per track.
PDS/TRK	Maximum number of PDS directory blocks per track.

PDS100I *STARTOOL/type -- Version 7.1.0 2000.001*

Displays the name by which the program was called, the release level and Julian release date of the StarTool FDM program. This message displays at program initialization and is the first message from each CONTROL subcommand.

This message indicates how StarTool FDM, StarTool FDM StarWarp Option, and StarTool FDM StarBat are licensed:

```
/Lite           StarTool FDM Lite; PEDIT is not available.  
/SuperEdit     StarTool FDM; PEDIT and PBROWSE are available.  
/StarWarp      StarWarp Option; StarTool FDM subcommands like PEDIT or  
                FIXPDS are not available.  
/Both          StarTool FDM and StarWarp Option; all facilities are  
                available.
```

PDS101I Deleted member found at TTR: *hexttr*

Issued in response to a RESTORE subcommand. It indicates that a previously deleted member was found at the displayed TTR address.

PDS103I Entry point at *hexaddress* -- *symbol*

Displays the hexadecimal offset of the entry point for the member and the corresponding entry symbol name (if it is available).

PDS104I Module length *hexlength* -- *decimalK*

Displays the length of the module in hexadecimal and in K units (units of 1024 bytes using the next higher boundary of 1024).

PDS110I *nn,nnn* logical records were input

This VERIFY message displays a count of the logical input records.

PDS111I *nn,nnn* physical blocks were input

This VERIFY message displays a count of the physical input records.

PDS112I *nn,nnn* characters in the largest physical block

This VERIFY message displays the maximum physical blocksize read.

PDS113I *nn,nnn* characters per average physical block

This VERIFY message displays the average number of characters in a physical block. The average is from (total characters read)/(total blocks read);

PDS114I *nn,nnn* tracks could be regained by compressing this data set

This VERIFY message displays the number of tracks containing deleted members. If a compress is performed on the data set, these tracks become available for use.

PDS115I *nn,nnn* members were checked

This VERIFY message indicates the number of members processed.

Chapter 3: Information Messages (PDS001I - PDS299I)

PDS116I Data set was checked

This VERIFY message indicates that this sequential data set has been processed.

PDS117I *nn* members counted; cumulative size from statistics is *nn* records

or

PDS117I *nn* members counted; cumulative size is *nn* records and *nn* characters

Format 1: is used by the ATTRIB subcommand and the VERIFY subcommand if NOREAD is used. The size information is calculated from members with ISPF statistics.

Format 2: is used by the VERIFY subcommand if READ is used to actually input member records.

The output from ATTRIB and VERIFY differ in that VERIFY includes statistics for an alias member if the alias member is an orphan. In addition, if VERIFY READ is requested, statistics are accumulated for members according to their actual size (not dependent on ISPF statistics). This reporting logic is summarized in the following table:

Subcommand	Include aliases?	ISPF statistics used?
ATTRIB	never	yes, only source of data
VERIFY (with NOREAD)	if an orphan	yes, only source of data
VERIFY (with READ)	if an orphan	no, input counts are used

PDS118I *nnnn* members RMODE24; size is *nnnnK*

Lists the number and size of RMODE 24 members to show the cumulative size of non-alias members below the 16 MEG line.

The output from ATTRIB and VERIFY differ in that VERIFY includes statistics for an alias member if the alias member is an orphan.

PDS119I *nnnn* members RMODEANY; size is *nnnnK*

Lists the number and size of RMODE ANY load members to show the cumulative size of non-alias members above the 16 MEG line.

The output from ATTRIB and VERIFY differ in that VERIFY includes statistics for an alias member if the alias member is an orphan.

```
PDS120I MVS/XA Residence mode is rmode -- ADDRESSING MODE IS amode
                                     {RMODE24}                {AMODE24}
                                     {RMODEANY}               {AMODE31}
                                     {AMODEANY}
```

This ATTRIB message shows the RMODE and AMODE values of the module:

```
RMODE24      residence mode is 24 (below the 16Meg line)
RMODEANY     residence mode is ANY (above the 16Meg line)
AMODE24      addressing mode is 24 bit addresses
AMODE31      addressing mode is 31 bit addresses
AMODEANY     addressing mode is 24 bit or 31 bit addresses
```

PDS121I Association type--dsname

Lists data sets associated with the current data set:

```
type         is AIX, CATALOG, CLUSTER, DATA, INDEX, PATH or UPGRADE.
dsname       is the associated data set name.
```

PDS130I The following is a track usage map of the data set
ddxxx...xxl....

This VERIFY message displays when you perform a VERIFY : operation. The message gives a pictorial view of the current data set usage by track as follows:

```
d          directory track (one or more directory blocks are on this track)
x          used track (this track has actual member data on it).
.          unused track (this track may contain deleted members).
l          DS1LSTAR track (this is the end of the space used).
```

PDS140I {BLOCK/DUMP} RECORD *nn,nnn* LENGTH *nn,nnn* TTR *hextr*
or
{BLOCK/DUMP} RECORD *nn,nnn* LENGTH *nn,nnn* type number

A header for BLOCK or DUMP format LIST, FIND and REPLACE outputs:

```
RECORD      current physical record number
LENGTH      length of the current physical record
TTR         disk address of this record in hexadecimal
type        for VSAM data sets, this is RRN (relative record number) for an
            RRDS, or RBA (relative byte address) otherwise. If control interval
            access is being used for a DATA or INDEX component, type is CI-
            RBA for the RBA of the control interval.
number      relative record number or relative byte address depending on the type
            of data set and type of access as explained above.
```

Chapter 3: Information Messages (PDS001I - PDS299I)

PDS141I AT *hexaddr* CSECT *csectname* LENGTH *hexlen*
OR

PDS141I AT *hexaddr* ENTRY *entryname*

Format 1: is a header for DISASM or LBLOCK/LDUMP format LIST, FIND and REPLACE outputs for a CSECT.

Format 2: is a header for DISASM or LBLOCK/LDUMP format LIST, FIND and REPLACE outputs for an ENTRY within a CSECT in a load module.

AT	start of this CSECT or ENTRY in the load module
CSECT	name of this CSECT
ENTRY	name of this ENTRY
LENGTH	length of this CSECT

PDS142I *nn,nnn* lines/blocks/CSECTS in this member

This DISASM, FIND, LIST and REPLACE message means that an end of file marker has been recognized and it summarizes the amount of data input for the member:

lines	number of logical records read
blocks	number of physical records read
CSECTS	number of CSECTS input through the BINDER interface

PDS143I *membername* Directory entry, Length=*nn*

This DIRENTRY message is a header for a dump of a member's directory entry. The length of the directory entry is shown in decimal.

PDS144I Data line *nn*:

This RESTORE message is a header for the display of one line from this deleted member.

PDS145I *nn,nnn* blocks updated

This REPLACE message displays the number of physical records updated for this member or data set.

PDS146I *nn,nnn* strings found

This FIND or REPLACE message displays the number of string matches encountered.

PDS147I *nn,nnn* members searched

Displays the number of members searched for this member group.

Issued by IF, FIND and REPLACE. It is also issued by MAP, HISTORY, XREF or MEMLIST when a search criteria such as MODULE(xx) is specified.

PDS148I *nn,nnn* members found

Displays the number of members found for this search.

Issued by IF, FIND and REPLACE. It is also issued by MAP, HISTORY, XREF or MEMLIST when a search criteria such as MODULE(xx) is specified.

PDS149I *nn,nnn* total strings found

This FIND or REPLACE message displays the total number of string matches encountered in this member group.

PDS160I Aliases for this member are: *alias1, alias2, ...*

This ATTRIB message displays the aliases associated with this main member.

PDS161I Members to be renamed are: *member1, member2, ...*

This RENAME message displays the group of members that are renamed if you type y to the next prompt.

PDS162I Members to be deleted are: *member1, member2, ...*

This DELETE message displays the group of members that are deleted if you type y to the next prompt.

PDS163I Associated members to be deleted are: *member1, member2, ...*

This DELETE message displays the associated (alias, apparent alias and main) members that are deleted if you type y to the next prompt.

PDS164I CSECTS are: *csect1, csect2, ...*

This RESTORE message displays the CSECT names found in this deleted member.

PDS165I Members are: *member1, member2, ...*

Displays the names of the members in the current member group.

Issued in response to a COMPDIR, MEMBERS or SUBLIST subcommand; an IF or FIND subcommand with THEN(SUBLIST/ MEMLIST) or ELSE(SUBLIST/ MEMLIST); or a REPLACE, HISTORY, MAP or VERIFY subcommand with a ML, MEMLIST, NEWML or SUBLIST operand.

PDS166I *csectname* from: *csect1, csect2, ...*

This XREF message displays a list of all CSECTs that reference *csectname*.

PDS168I *csectname* to: *csect1[<entry1>], csect2[<entry2>], ...*

This XREF message displays a list of all CSECTs and ENTRY names that are referenced by *csectname*. If entry name OVERTBL within CSECT LINEONE is called, a reference like LINEONE<OVERTBL> is generated in the reference list.

PDS169I *entryname* entry called by: *csect1, csect2, ...*

This XREF message displays a list of all CSECTs that contain references to *entryname*.

Chapter 3: Information Messages (PDS001I - PDS299I)

PDS170I ATTRIB will change the following members: *member1, member2, ...*

Displays the names of the members that are to be modified by the ATTRIB subcommand if you type y to the next prompt.

PDS171I {*COPY/COMPRESS*} has completed; RC=00

The COPY or COMPRESS subcommand finished with a zero return code.

PDS172I *externalname* is the entry point

This XREF message displays the CSECT or ENTRY symbol that is the entry point for this module.

PDS174I '*userid.data.set*' has been created on volume *volname*

The data set was created on the indicated DASD volume.

Issued by the CREATE subcommand or the COMBINE, COPY, DUP or SEPARATE subcommands if a new data set is created.

PDS175I The member {*names/data/directory entries*} have been compared

The COMPDIR subcommand completed successfully and an action was taken as requested.

PDS176I *nnn* members checked; *kkk* members do not match the condition

A COMPDIR feedback message.

There were *nnn* members checked for the condition coded (EXIST, NOEXIST, DIRCHANGE, NODIRCHANGE, CHANGED or **NOCHANGED**). Of these, KKK members did not match the condition tested.

PDS180I Data set: CREATED EXPIRES LAST USE UPDATED SECURITY
[DFHSM Format] *yyyy/mm/dd* *yyyy/mm/dd* *yyyy/mm/dd* *yes/no/date* *type/time*

or

PDS180I Data set: CREATED EXPIRES LAST USE UPDATED SECURITY ASM2ID
[CA-ASM2 Format] *yyyy/mm/dd* *yyyy/mm/dd* *yyyy/mm/dd* *yyyy/mm/dd* *type* *userid*

or

PDS180I Data set: CREATED EXPIRES LAST USE UPDATED LASTUSE FIRSTUSE
[DMS/OS Format] *yyyy/mm/dd* *yyyy/mm/dd* *yyyy/mm/dd* *yyyy/mm/dd* *userid* *userid*

or

PDS180I Data set: CREATED EXPIRES LAST USE UPDATED BACK# OLD ABRFLAG
[ABR Format] *yyyy/mm/dd* *yyyy/mm/dd* *yyyy/mm/dd* *yes/no* ### *yes flag*

Format 1: lists various data set characteristics for systems with DFHSM or no DASD manager:

CREATED data set creation date.

EXPIRES data set expiration date. *PERMANENT displays for data sets marked for permanent retention.

LAST USE last data set open date.

UPDATED YES if data set was opened for output or update; otherwise NO.
For VSAM data sets, the date of the last update.

SECURITY type of security (according to the DSCB entry) or
 TIME for VSAM data sets, the time of the last update.
 NONE if no data set password security bit is set.
 WRITE if the data set is protected from output use.
 READ if the data set is protected from input use.
 RACF if the data set RACF bit is on.

Format 2: for systems with CA-ASM2, the following changes apply:

UPDATED last date of data set update.
 ASM2ID last update user

Format 3: for systems with DMS/OS, the following changes apply:

UPDATED last date of data set update.
 LASTUSE last user of this data set
 FIRSTUSE job that first used this data set

Format 4: for systems with FDR/ABR, the following changes apply:

BACK# current backup number or NONE if none are available.
 OLD YES if an old backup is available; otherwise NO.
 ABRFLAG any one of the following values (see FDRABR documentation):
 NOABR from OPTIONS=EX (Exclude from ABR)
 NOARCH from OPTIONS=ND (Normal backup/no archive)
 ALWAYS from OPTIONS=AD (Always backup/no archive)
 ARCHIV from ARCH=ON (Archive this data set)

PDS181I Extents in tracks: *nnn, nnn, ...*

This USAGE message lists the size of each data set extent in tracks.

PDS182I Tracks: ALLOCATED USED FREE EXTENTS CATALOGED
 nnnnn nnnn nnnn nnnn vol1 vol2 . . .

This USAGE message lists disk allocation characteristics:

ALLOCATED number of allocated disk tracks.
 USED number of in-use disk tracks.
 FREE number of free disk tracks.
 EXTENTS number of disk storage extents.
 CATALOGED up to 10 volume names as cataloged to the data set name regardless of how the current data set is used.

Chapter 3: Information Messages (PDS001I - PDS299I)

```
PDS183I Directory: BLOCKS      USED  FREE  TRACKS  MEMBERS  ALIASES
                   nnnn      nnnn  nnnn   nnnn   nnnn   nnnn
```

This USAGE message lists directory statistics:

BLOCKS	number of allocated directory blocks.
USED	number of in-use directory blocks.
FREE	number of free directory blocks.
TRACKS	number of tracks occupied by directory blocks.
MEMBERS	number of members in the data set.
ALIASES	number of aliases in the data set.

```
PDS184I EXTENT UCB LO TT-HI TT TRKS      LOW CCHH-HIGH CCHH  BOUNDARY
-----
      nn ccc tt.tt tt.tt nnn   cc.cc.hh.hh cc.cc.hh.hh type
      ...
```

This USAGE message lists data from each extent of the data set:

EXTENT	number of this extent.
UCB	UCB for this extent.
LO TT	TT (of TTR) address for the first track in this extent.
HI TT	TT (of TTR) address for the last track in this extent.
TRACKS	number of disk tracks in this extent.
LOW CCHH	CCHH address of the first track of this extent.
HIGH CCHH	CCHH address of the last track of this extent.
BOUNDARY	CYL if the extent is on a cylinder boundary; TRK otherwise.

```
PDS185I Format {1/3/4}DSCB at cchhr-addr
0   4   8   C 10  14  18  1C 20  24  28  2C 30  34  ...
character.data
hexadecimal.over.row
hexadecimal.under.row
```

This USAGE message outputs a Format 1, 3 or 4 DSCB in a combined character and hexadecimal over/under display. This message documents a DSCB (Format 1, 3 or 4) for the allocated data set or a volume record definition map for an SMS managed volume. The display requires two over/under displays to output the entire 140 bytes of the DSCB.

Note: The second header line for PDS185I is a hexadecimal column header. These columns are 0-origin as used by the MVS Debugging Handbook. For example, hex column 2C has value X'F1' and is documented under topic DSCB1 for hexadecimal offset 2C.

Chapter 3: Information Messages (PDS001I - PDS299I)

PDS187I This data set is managed by LLA; refresh updated members with the LLA subcommand

Issued when you modify or move members in an LLA managed data set (message PDS189I was previously received on the CHANGE to the data set). This message may be issued by the ALIAS, ATTRIB, DELETE, COMPRESS, FIXPDS (if members are moved), RENAME, REPRO and RESTORE subcommands.

Enter members deleted by the DELETE subcommand in an LLA subcommand to notify LLA that they no longer exist.

For the RENAME subcommand, enter both the original name and the new name of a member in an LLA subcommand to notify LLA of their new status.

At the end of processing for this subcommand, inform LLA that these members changed status. Use the LLA subcommand or some other method of refreshing LLA for these members.

PDS188I The output data set is managed by LLA; refresh updated members with the LLA subcommand

Issued when you add or replace members in a LLA managed data set with the COPY or DUP subcommands.

At the end of processing for this subcommand, inform LLA that these members were added or updated. Use the LLA subcommand or some other method of refreshing LLA for these members.

PDS189I This data set is managed by LLA

Issued when you enter a data set or request a USAGE subcommand. A data set is assumed to be managed by the LLA started task if LLA has the data set ENQUEUED on the same system and the data set is cataloged.

If a data set is managed by LLA and it is a linklist library, StarTool FDM provides additional information on modules that are not present in the data set but are known to LLA (see message PDS728E).

PDS190I An alias named *memname* is already at this TTR

The identified alias member resides at this location – RESTORE continues if only alias members are found at this TTR address.

PDS191I STORAGE CLASS MGMT CLASS DATA CLASS DSNTYPE
sclass mclass dclass PDS/LIBRARY

This USAGE message provides feedback on SMS managed data sets showing their STORCLAS, MGMTCLAS, DATACLAS and DSNTYPE for a PDS (identified by PDS) or a PDSE (identified by LIBRARY).

PDS193I This group contains *nn,nnn* members

This message shows the number of members in the member group just displayed by the previous PDS165I message.

Issued in response to a COMPDIR, MEMBERS or SUBLIST subcommand; an IF or FIND subcommand with THEN(SUBLIST/ MEMLIST) or ELSE(SUBLIST/ MEMLIST); or a REPLACE, HISTORY, MAP or VERIFY subcommand with a ML, MEMLIST, NEWML or SUBLIST operand.

PDS194I Security instructions from *modname yyyy/mm/dd hh:mm*

A header for a list of customized StarTool FDM security instructions loaded from the security module and the time and date of its assembly. Issued in response to a CONTROL SECURITY command.

The modname is normally PDS#SECI; however, PDS#DFLS is substituted if it is not available and a CSV003I REQUESTED MODULE PDS#SECI NOT FOUND message (or equivalent) is issued by MVS.

The following example shows PDS194I messages with actual values:

```
>----->control security
PDS100I STARTOOL/SuperEdit -- Version 5.2.0   1997.084

PDS030I Global operands: NOPROMPT, NOTTRANSLATOR, ALIASINFO, LKEDDATE, RECOVER
PDS030I Global operands: NODSNAME, NOSYSOUT, NOFORM, NODEST
PDS031I Input buffering: RETAIN(9)
PDS036I Largest free storage area is 3264K
PDS046I Largest area above the line is 2010M

PDS194I Security instructions from PDS#SECI 1997/04/01 08.31:
Access control method           RACF 1.8
Security tables                  SYSTEMSE SYSTEMSN APPLEXP  OTHERS

For PDS#SECI installation, refer to topic "XXXX and PDS#SECI"
in the Installation Guide. Following is a summary of installation steps:
1. ...
```

PDS195I *type span imbed replicate shroptns(n,m)*

Issued by the USAGE command to show VSAM data set attributes. The fields by position are as follows:

- type
INDEXED for a key-sequenced data set; NONINDEXED for an entry-sequenced data set; NUMBERED for a fixed or variable relative data set; LINEAR for a linear data set and NOTUSABLE for any other VSAM data set.
- span
SPANNED if logical records span one or more control interval boundaries; otherwise, it is NONSPANNED.
- imbed
Not output for ESDS, LDS or fixed RRDS data sets. This is IMBED if the sequence set (the lowest level of the index) is placed with the data component; otherwise, it is NOIMBED.
- replicate
Not output for ESDS, LDS or fixed RRDS data sets. This is REPLICATE if each index record is written on a track multiple times; otherwise, it is NOREPLICAT.

Chapter 3: Information Messages (PDS001I - PDS299I)

shr(n,m) Listed as SHROPTNS(*n,m*) to specify how a component or cluster can be shared among users.

The first parameter (*n*) specifies crossregion sharing as follows:

- 1 the data set can be shared by any number of users for read processing, or the data set can be accessed by only one user for read and write processing. VSAM ensures complete data integrity for the data set.
- 2 the data set can be shared by any number of users for read processing and the data set can be accessed by one user for write processing. VSAM ensures write integrity by obtaining exclusive control for a control interval when it is to be updated.
- 3 the data set can be fully shared by any number of users. Each user is responsible for maintaining both read and write integrity for the data accessed. This option requires advanced programming methods.
- 4 the data set can be fully shared by any number of users and buffers used for direct processing are refreshed for each request. This option also requires advanced programming methods.

The second parameter (*m*) specifies crosssystem sharing as follows:

- 1 reserved (not currently used).
- 2 reserved (not currently used).
- 3 the data set can be fully shared by any number of users. Each user is responsible for maintaining both read and write integrity for the data accessed. This option requires advanced programming methods.
- 4 the data set can be fully shared by any number of users and buffers used for direct processing are refreshed for each request. Output processing is limited to update and/or add processing that does not change either the high-used RBA or the RBA of the high-key data control interval if DISP=SHR allocation is used.

PDS196I *erase writechk speed reuse ordered uniquekey upgrade*

Issued by the USAGE command to show VSAM data set attributes. The fields by position are as follows:

<i>erase</i>	ERASE if the cluster's data component is to be overwritten with binary zeros when its catalog entry is delete; otherwise, it is NOERASE.
<i>writechk</i>	WRITECHK if each write operation is to be followed by a read (without data transfer) to test for a data check condition; otherwise, it is NOWRITECHK. WRITECHK is not necessary for modern DASD devices.
<i>speed</i>	SPEED if the data component's space is not preformatted; its contents are unpredictable if the JOB terminates abnormally. Otherwise, this entry is RECOVERY.

reuse	REUSE if the cluster can be opened as a reusable cluster. When a reusable cluster is opened with an access control block specifying the RESET attribute, the high-used RBA is set to zero. Otherwise, this entry is NOREUSE.
ordered	ORDERED if the volumes for the data set are to be used in the order listed for the VOLUMES parameter; otherwise, this entry is UNORDERED.
uniquekey	Only issued for an alternate index data set. This is UNIQUEKEY if a key value for the alternate index can point to only one data record in the base cluster; otherwise, this entry is NONUNIQKEY meaning a key value for the alternate index can point to more than one data record in the base cluster.
upgrade	Only issued for an alternate index data set. This is UPGRADE if the alternate index is to be upgraded to reflect changed data when the base cluster is added to, updated or erased; otherwise, this field is NOUPGRADE.

```

PDS197I Key length: keylength
      Key offset: offset
      AIX key offset: aixoffset
      Average LRECL: avglrecl
      Maximum LRECL: maxlrecl
      Data set owner: userid
      Creation date: cccc.jjj
      Expiration date: cccc.jjj
      Update date: cccc.jjj
      Buffer space: bufspace
      Volume count: numvolumes
      Records per CI: numrecs
      Maximum records: maxrecs
  
```

Issued by the USAGE command to show VSAM data set attributes. These messages are as follows:

Key length	Only issued for a key-sequenced or alternate index data set. This shows the length of the data set key.
Key offset	Only issued for a key-sequenced or alternate index data set. This shows the displacement of the key in bytes from the beginning of each record.
AIX key offset	Only issued for an alternate index data set. This shows the displacement of the key in bytes from the beginning of each record in the base cluster.
Average LRECL	Shows the average record length of the records in the data set as specified when the data set was defined.

Chapter 3: Information Messages (PDS001I - PDS299I)

Maximum LRECL	Shows the maximum record length of any record in the data set as specified when the data set was defined (VSAM enforces this value).
Data set owner	Identifies the owner of the data set.
Creation date	Provides the Julian creation date for the data set.
Expiration date	Provides the Julian expiration date for the data set.
Update date	Provides the Julian date of the last data update.
Buffer space	Specifies the minimum amount of space that is needed for buffers.
Volume count	Indicates the number of volumes spanned by the data component of the data set.
Records per CI	Issued only for fixed relative record data sets to indicate the number of records that fit in a control interval.
Maximum records	Issued only for fixed relative record data sets to indicate the maximum number of records that could be contained in the data set.

```
PDS198I DATA space usage: TRACKS KILOBYTES CA 's CI 's PERCENT
Allocated space:          30      1344         2    336
High used space:         15       672         1    168    50.0
Real used space:          2        56         1     14     4.1
INDEX space usage: TRACKS KILOBYTES CA 's CI 's PERCENT
Allocated space:         15       588        15    392
High used space:         16       587        16    391    99.7
```

Issued by the USAGE command to show VSAM DATA and INDEX space usage as follows:

TRACKS	Shows usage in disk tracks for the DATA and INDEX (if it exists) components:
Allocated	amount of space allocated.
High used	amount of space used (from high RBA).
Real used	amount of space actually used. This is calculated by counting control intervals that contain one or more records.
KILOBYTES	same information expressed in kilobytes.
CA's	same information expressed in number of control areas.
CI's	same information expressed in number of control intervals.
PERCENT	amount of space compared to Allocated space.

```
PDS199I Records: TOTAL DELETED UPDATED INSERTED RETRIEVED EXCP 'S
                2113      0         1         0      45271    4586
```

Issued by the USAGE command to show VSAM record statistics for the DATA component:

TOTAL	number of records in the data set.
-------	------------------------------------

DELETED number of records deleted.
 UPDATED number of records updated with PUT operations.
 INSERTED number of records inserted.
 RETRIEVED number of records read with GET operations.
 EXCP'S number of EXCP operations executed.

PDS200I *DISP UNIT OPT RECFM LRECL BLKSIZE ALLOCTRK FREETRK SECONDARY FREEDIR*
disp unit opt recfm lrecl blksize #x alloc freet ## sec freed
 or

PDS200I *DISP UNIT OPT RECFM LRECL BLKSIZE ALLOCTRK FREETRK SECONDARY DSORG*
disp unit opt recfm lrecl blksize #x alloc freet ## sec dsorg
 or

PDS200I *DISP UNIT RECFM LRECL BLKSIZE ALLOCTRK FREETRK SECONDARY DSORG*
disp unit VSAM lrecl blksize #x alloc freet ## sec VS-type

Documents the current allocation. This format can be specifically requested by typing
 DSNNAME MSG.

DISP SHR or OLD disposition.
 UNIT disk unit device type.
 OPT OPTCD value from the DSCB.
 RECFM record format from the DCB.
 LRECL logical record length from the DCB.
 BLKSIZE blocksize from the DCB.
 ALLOCTRK number of disk extents and the disk space in tracks.
 FREETRK number of available disk tracks.
 SECONDARY secondary allocation size and type units (CYL or TRK).
 FREEDIR if a PDS, the number of available directory blocks.
 if a PDSE, the keyword NOLIMIT.
 DSORG if not DSORG=PO, the actual DSORG from the DCB.
 PX indicates BSAM is used for sequential; PQ means QSAM is used.

For a VSAM data set, this format is always used. The following changes apply:

DISP SHR or OLD disposition (not changed).
 UNIT disk unit device type (not changed).
 RECFM VSAM for any VSAM data set.
 LRECL average record length for the data set.
 BLKSIZE maximum record length for the data set.
 ALLOCTRK number of disk extents allocated and the total space allocated in tracks
 for the DATA component.
 FREETRK number of available disk tracks for the DATA component.

Chapter 3: Information Messages (PDS001I - PDS299I)

SECONDARY secondary allocation size and type units (CYL or TRK) for the DATA component.

DSORG VS for VSAM followed by one of the following data set types:

- AIX Alternate index data set.
- ESDS Entry-sequential data set.
- KSDS Key-sequenced data set.
- LDS Linear data set.
- PATH Path over an alternate index, a KSDS or ESDS.
- RRDS Fixed numbered data set.
- VRRDS Variable numbered data set.

The following example shows PDS200I messages with actual values:

```
PDS200I DISP UNIT RECFM LRECL BLKSIZE ALLOCTRK FREETRK SECONDARY FREEDIR
PDS200I SHR 3380 FB 80 9040 3X 47 10 40 TRK 25
      or for VSAM:
PDS200I DISP UNIT RECFM LRECL BLKSIZE ALLOCTRK FREETRK SECONDARY DSORG
PDS200I SHR 3390 VSAM 45 3010 3X 150 42 1 CYL VS-KSDS
```

```
PDS210I ALLOC F(ddname) DA('datasetname') disp UNIT(unit) -
RECFM(rrr) LRECL(rec) BLKSIZE(blk) OPTCD(c) DSORG(xx) VOLUME(vol) -
EXPDT(yyyy/dd) DSNTYPE(lb) STORCLAS(sc) DATACLAS(dc) MGMTCLAS(mc) -
type SPACE(tot,sec) DIR(mm) /*FREE TRK=##,FREE DIR=##*/
```

Documents the current allocation. This format can be specifically requested by typing DSNAME TSO.

F(ddname) current DDNAME.

DA(data set name.

disp SHR or OLD disposition.

UNIT(disk unit device type.

RECFM(record format from the DCB.

LRECL(logical record length from the DCB.

BLKSIZE(blocksize from the DCB.

OPTCD(OPTCD from the DSCB.

DSORG(if not DSORG=PO, the actual DSORG from the DCB.
PX indicates BSAM is used for sequential; PQ means QSAM is used.

VOLUME(volume name.

EXPDT(Julian expiration date.

DSNTYPE(LIBRARY if the data set is a PDSE.

STORCLAS(storage class.
 DATACLAS(data class.
 MGMTCLAS(management class.
 type CYL or TRK allocation.
 SPACE(tot is the total space allocated in type units.
 sec is the secondary allocation size in type units.
 DIR(mm) if DSORG=PO, mm is the number of directory blocks.
 FREE TRK= number of available disk tracks.
 FREE DIR= if a PDS, the number of available directory blocks

The following example shows the PDS210I message with actual values:

```

PDS210I ALLOC F(SYS00134) DA('C911407.LIB.TEST') SHR UNIT(3380) -
PDS210I RECFM(F B) LRECL(80) BLKSIZE(9040) OPTCD(C) VOLUME(STR815) -
PDS210I TRK SPACE(47,40) DIR(30) /*FREE TRK=10,FREE DIR=25*/
  
```

```

PDS220I //ddname DD DSN=datasetname,DISP=disp,UNIT=unit,
// DCB=(RECFM=r,LRECL=l,BLKSIZE=b,OPTCD=opt,DSORG=xx),VOL=SER=vol,
// LABEL=EXPDT=dt,DSNTYPE=lb,STORCLAS=sc,DATACLAS=dc,MGMTCLAS=mc,
// SPACE=(type,(tot,sec,mm)) /*FREE TRK=##,FREE DIR=##*/
  
```

Documents the current allocation. This format can be specifically requested by typing DSNNAME JCL.

//ddname current DDNAME.
 DSN= data set name.
 DISP= SHR or OLD disposition.
 UNIT= disk unit device type.
 RECFM= record format from the DCB.
 LRECL= logical record length from the DCB.
 BLKSIZE= blocksize from the DCB.
 OPTCD= OPTCD from the DSCB.
 DSORG= if not DSORG=PO, the actual DSORG from the DCB.
 PX indicates BSAM is used for sequential; PQ means QSAM is used.
 VOLUME= volume name.
 EXPDT= Julian expiration date in yyyy/ddd format.
 DSNTYPE= LIBRARY if the data set is a PDSE.
 STORCLAS= storage class.
 DATACLAS= data class.

Chapter 3: Information Messages (PDS001I - PDS299I)

MGMTCLAS= management class.
SPACE= type is CYL or TRK allocation.
tot is the total space allocated in type units.
sec is the secondary allocation size in type units.
if DSORG=PO, mm is the number of directory blocks.
FREE TRK= number of available disk tracks.
FREE DIR= if a PDS, the number of available directory blocks

The following example shows the PDS220I message with actual values:

```
PDS220I //SYS00134 DD DSN=C91407.LIB.TEST,DISP=SHR,UNIT=3380,  
PDS220I // DCB=(RECFM=FB,LRECL=80,BLKSIZE=9040),VOL=SER=STR815,  
PDS220I // SPACE=(TRK,(47,40,30)) /*FREE TRK=10,FREE DIR=25*/
```

PDS222I Block allocation: SPACE=(*rsize*, (*prim*, *sec*, *mm*))

Issued when you enter a data set or request a USAGE subcommand. It is issued if the data set was allocated by blocks. The PDS200I, PDS210I or PDS220I messages report block allocated data sets in equivalent track units.

In the PDS222I message, *rsize* is the record size used, *prim* represents the amount of allocated space, *sec* is the secondary quantity and *mm* is the number of directory blocks allocated.

PDS223I This is a linklist/lpalist data set [; all linklist libraries are authorized]

Issued when you enter a data set or request a USAGE subcommand. It is issued if the data set is in the active system link list or the LPA library concatenation. If the linklist message is followed by “;all linklist libraries are authorized” then the data set is also APF authorized because LNKAUTH=LNKLST was specified or defaulted in the IEASYSxx member of SYS1.PARMLIB.

Normally for linklist data sets, this message is followed by “PDS189I This data set is managed by LLA” to indicate that the LLA started task is managing access to members in this library.

PDS224I This data set is APF authorized

Issued when you enter a data set or request a USAGE subcommand. It is issued if the data set is in the active system list of APF authorized data sets.

PDS225I This data set is in number extents

This warning message is issued when you enter a data set or request a USAGE subcommand. It displays when the data set is in seven or more extents. A normal MVS data set contains as many as 16 extents but processing efficiency is degraded as you get more extents. A PDSE data set can contain up to 123 extents.

PDS226I This data set has *number* free directory blocks

This warning message is issued when you enter a data set or request a USAGE subcommand. It displays when a partitioned data set has three or fewer free directory blocks. You can issue a FIXPDS EXPANDDIR or FREEDIR subcommand to avoid full directory errors later.

PDS227I This data set has *number* free tracks

This warning message is issued when you enter a data set or request a USAGE subcommand. It displays when a partitioned data set has ten percent or less of its space free. Compress the data set or review your secondary allocation type and amounts to insure that you can obtain free space when you need it.

PDS228I This data set is an alias for *real.data.set.name*

Indicates that the current data set is an alias and displays the actual data set name.

StarTool FDM saves the actual data set name so it can invoke system services that do not support alias data set names.

```

PDS230I MEMBER      VER.MOD   CREATED      LAST MODIFIED  SIZE  INIT  MOD   ID
PDS230I memname    vv.mm yyyy/mm/dd  yyyy/mm/dd hh:mm  size  init  mod   user
PDS230I memname-A  SSI: hexvalue
    
```

This ATTRIB or HISTORY message displays directory information for a source member (ISPF statistics, SSI information and alias indicators):

MEMBER	member name.
-A	indicates that this member is an alias. Note: ISPF statistics are formatted for aliases if statistics are available.
VER.MOD	if saved by ISPF, version and mod numbers.
SSI:	SSI data in hexadecimal (ISPF stats and SSI are mutually exclusive).
CREATED	creation date in yyyy/mm/dd format.
LAST	last modification date in yyyy/mm/dd format.
MODIFIED	last modification time in hh:mm format.
SIZE	number of records in the member currently.
INIT	number of records in the member initially.
MOD	number of changed records in the member.
LASTREAD	date in yyyy/mm/dd format that the member was last input. This data is available if you have PDSMAN/MVS; this field is provided instead of INIT and MOD if you specify the LASTREAD operand.
ID	identifier of the user who last updated this member.

Chapter 3: Information Messages (PDS001I - PDS299I)

The following example shows the PDS230I message with actual values:

```
PDS230I MEMBER      VER.MOD   CREATED    LAST MODIFIED  SIZE  INIT  MOD   ID
PDS230I RESCPY      01.01 1993/06/14 1995/11/29 15:37  12   11   11  WSER07 PDS230I
RESCOMP      SSI: 047088AB
PDS230I RESCOMPL-A
```

```
PDS232I NAME          ALIASOF    CREATED    SIZE SSI      ATTRIBUTES
      modname        alname     lkeddate   dsize hexssi   attribs
      . . .
```

This ATTRIB message displays short form module information for load modules. Note: if this format message is requested, many standard module checks are not performed and an incorrectly created or modified load module may not be detected.

modname	member name.
alname	if the module is an alias, this field displays the real member name (if not found, ?UNKNOWN displays).
lkeddate	creation date in <i>yyyy/mm/dd</i> format.
dsize	module size in decimal if less than 100,000 bytes; otherwise, it is rounded to the next higher K value.
hexssi	SSI data in hexadecimal.
attribs	attributes for this module from the following set:
AC=1	APF authorized
A24	addressing mode 24
A31	addressing mode 31
AANY	addressing mode any
DC	downward compatible with E level linkage editor
E-LEVEL	not linked by the F level linkage editor
LOAD ONLY	LOAD use only
OVERLAY	overlay structure
NOT EDIT	not editable
NOT EXEC	not executable
PAGE	page aligned
R24	residence mode 24 (below the 16 Megabyte line)
RANY	residence mode any (above the 16 Megabyte line)
REFR	refreshable
RENT	reentrant
REUS	reusable
SCTR	scatter structure (like IEANUC01)

TEST test symbols
 NONE none of the above

The following example shows the PDS232I message with actual values:

```

PDS232I NAME        ALIASOF        CREATED    SIZE SSI        ATTRIBUTES
PDS232I ASTL                   1995/12/29    968 CB296112 NONE
PDS232I ASIDZN     ?UNKNOWN    1996/06/15    3120            RANY, A31
PDS232I PDSPGM                1996/06/10    436K            RANY, A31, RENT
PDS232I WHAT       PDSPGM       1996/06/10    436K            RANY, A31, RENT
```

```

PDS235I MEMBER    PRODUCT    FROM        DESCRIPTION
      member    product    from        description
      ...

```

This PGMDOC message documents load members in a single line format:

member member name.
 product name of any associated product.
 from name of the vendor supplying this product.
 description a 40-character description of the load member.

Note: if the description includes the word Prefix, the PGMDOC subcommand did not match the entire module name. Instead PGMDOC matched some initial portion of the member name and is providing this information as a possible clue of module origin.

The data for PGMDOC comes from many sources. Contact SERENA with corrections or other potential sources of data.

The following example shows PDS235I messages with actual values:

```

PDS235I PRODUCT FROM                    DESCRIPTION
DSNTTTTT MVS        IBM                    DB2 Prefix
XYZ456    UNKNOWN                        (THIS MODULE NAME WAS NOT FOUND)
ISRFR77   ISPF/PDF IBM                   3277 French Translate Table
ISRFR77A ISPF/PDF IBM                   3277 French APL Translate
JBB2217   MVSEFID IBM                   MVS/SP R2.1.7                    5752
```

```

PDS241I CI Space: FREESPACE    SPLITS    %SPLITS
                  10            2           20.0
CA Space: FREESPACE    SPLITS    %SPLITS
                  10            0           0.0

```

Issued by the USAGE command for alternate index, key-sequenced and variable RRDS VSAM data sets to report on CI and CA usage:

FREESPACE percentage of FREESPACE specified for the DEFINE CLUSTER.
 SPLITS number of CI or CA splits to this point.


```

PDS244I CA splits/CI   CI splits/insert   Inserts/read
          12.0             25.0             10.0
          (or)
PDS244I CA splits/CI   [for a variable RRDS]
          23.0
  
```

Issued by the USAGE command for alternate index and key-sequenced data sets to show when to adjust FREESPACE values:

- CA splits/CI Shows the number of CI splits that cause CA splits. This percentage compares control area splits to control interval splits from (number CA splits*100/number CI splits)
- CI splits/insert Shows how inserts cause CI splits. This percentage compares control interval splits to the total number of inserted records from (number CI splits*100/number inserts)
- Inserts/read Shows how active inserts are in this data set. This percentage compares records inserts to the number of records loaded plus the number of records inserted (no deleted records) from (number inserts*100/number records "read")

The second message format is issued by the USAGE command for variable RRDS data sets to show when to adjust FREESPACE values:

- CA splits/CI Shows the number of CI splits that cause CA splits. This percentage compares control area splits to control interval splits from (number CA splits*100/number CI splits)

```

PDS246I NOWRITE is in effect; no updates will be performed
  
```

This REPLACE subcommand does not update data because the WRITE or UPDATE keyword was not explicitly specified. To update the data, reenter the REPLACE subcommand and add the WRITE or UPDATE keyword.

```

PDS250I CSECT___VER_COUNT_FLOW_STATE_TEST_TRACE_RES_ENDJOB_SYMD_OBJ_OPTIMIZE
PDS250I csectnm ver vs.cobol.attributes
  
```

This HISTORY message documents several COBOL compiler options in effect when this CSECT was compiled:

- CSECT CSECT name
- VER Version of the compiler (VS1, VS2 or V4)
- COUNT COUNT option
- FLOW FLOW option
- STATE STATE option
- TEST TEST option
- TRACE READY TRACE statement found in the module
- RES RESIDENT option

Chapter 3: Information Messages (PDS001I - PDS299I)

ENDJOB ENDJOB option
SYMD SYMDMP option
OBJ 370 if OBJ370 was specified in the program
OPTIMIZE optimization level as follows:
 COBOL if optimized by the COBOL compiler
 CAPEX if optimized by the CAPEX product
 CAP/DTECT if the CAPEX DTECT option was used
HEXOPT All three flag bytes in hexadecimal.
 080000 SYMDMP
 040000 FLOW
 020000 STATE
 010000 OPTIMIZE
 001000 TEST
 002000 unknown (seems to always be set)
 000080 RESIDENT (this is an inverse setting)
 000040 ENDJOB
 000020 OBJ370
 000008 COUNT (VS COBOL only)
 000004 READY TRACE statement found in the module (VS COBOL only)

The following example shows the PDS250I message with actual values:

```
PDS250I CSECT__VER_COUNT_FLOW_STATE_TEST_TRACE_RES_ENDJOB_SYMD_OBJ_OPTIMIZE  
PDS250I CZARVSX VS2 FLOW STATE TEST RES ENDJOB SYMD 370 CAPEX  
PDS250I CZARVSY VS2 FLOW TEST RES ENDJOB SYMD 370 OPTIMIZE
```

With the GENERATE option, this message changes to the following:

PDS250I csectnm ver nnnnnnnynnnynnnnnnnnnnn

Start Column	Value
9	CSECT name
18	VS1, VS2 or V4 depending on compiler level
27	Y for SYMDMP
28	Y for FLOW
29	Y for STATE
30	Y for OPTIMIZE
34	Y for TEST
39	N for RESIDENT (this is an inverse setting)
40	Y for ENDJOB
41	Y for OBJ370
43	Y for COUNT (for VS COBOL only)
44	Y for READ TRACE in the member

PDS251I csectnm typ

The HISTORY GENERATE option creates this HISTORY message to document non-COBOL CSECTS in a load member after system routines beginning with DFH, DFS, DSN, IBM, IEL, IGZ, ILB, ILC, ISP or PLI are dropped. CSECTS whose names begin or end with an * are also dropped. Modules that contain CSECTS beginning with DSN are considered DB2, CSECT names beginning with DFS are IMS and CSECT names beginning with DFH are ONLINE.

For the example: PDS251I H481ASM4 ASD

H481ASM4 is the CSECT name and AS is the CSECT type (where the type may be ASM, FOR, RPG, REX, C37, MAP or ???) and D shows the module type:

- D for DB2
- O for ONLINE
- B for both DB2 and ONLINE
- I for IMS
- S for secondary if the CSECT name is not the same as the module name

Chapter 3: Information Messages (PDS001I - PDS299I)

PL/I CSECTS are formatted as follows:

PDS251I *csectnam Vnn Mmm useridrdata-for-40-bytes*

Start Column	Value
9	CSECT name
18	PL/I translator name (5734-PL1, 5668-910 or 5688-235)
29	Compiler Version number
32	Compiler Modification number
36	USERIDR data associated with this CSECT

PDS255I Run-time options:

v2.cobol.run-time.options

This HISTORY message documents several COBOL V2 compiler options in effect as run-time options from the OPTTBL.

DEBUG or NODEBUG
SSRANGE or NOSSRANGE
STAE or NOSTAE
AIXBLD or NOAIXBLD
SPOUT or NOSPOUT
RTEREUS or NORTEREUS
LIBKEEP or NOLIBKEEP
WSCLEAR or NOWSCLEAR
MIXRES or NOMIXRES
SIMVRD or NOSIMVRD

The following example shows the PDS255I message with actual values:

```
** HISTORY COBOLV2
PDS260I CSECT _VER_TEST_SSRANG_OPT_CMPR2_ZWB_NUMPR_TRUNC_RES_RENT_DYNAM_DATA
PDS260I DSNOMGF IID      SSRANG OPT      ZWB NOPFD (STD) RES_RENT      31/CA
PDS260I DSNOMGZ IID      SSRANG OPT      ZWB (PFD) (BIN) RES_RENT      31/CA
PDS255I Run-time options:
DEBUG, SSRANGE, STAE, NOAIXBLD, NOSPOUT, NORTEREUS, NOLIBKEEP, NOWSCLEAR, NOM
PDS064I Last link-edited on 1993/01/25 by LKED 566528408-DFPLKED V03 M01
```


Chapter 3: Information Messages (PDS001I - PDS299I)

RENT	RENT option
DYNAM	DYNAM option
DATA	31 if DATA 31; blank if DATA 24; /CA is appended for CA-Optimizer II
ALL OPTION	From LY27-9522-3 VS COBOL II Diagnosis Reference page 182, all 5 flag bytes in hexadecimal (this field is displayed on the right side of the message).
8000000000	ADV
4000000000	APOST
2000000000	DATA(31), DATA(24) otherwise
1000000000	DECK
0800000000	DUMP
0400000000	DYNAM
0200000000	FASTSRT
0100000000	FDUMP (COBOL II only)
0080000000	LIB
0040000000	LIST
0020000000	MAP
0010000000	NUMBER
0008000000	OBJECT
0004000000	OFFSET
0002000000	OPTIMIZE
0001000000	OUTDD specified
0000800000	NUMPROC(PFD)
0000400000	RENT
0000200000	RESIDENT (COBOL II; set on otherwise)
0000100000	SEQUENCE
0000080000	SIZE(MAX)
0000040000	SOURCE
0000020000	SSRANGE
0000010000	TERM

000008000 TEST
000004000 TRUNC(STD)
000002000 WORD
000001000 VBREF
000000800 XREF(SHORT) or XREF(FULL)
000000400 ZWB
000000200 NAME(NOALIAS), NONAME otherwise
000000100 CMPR2
000000080 NUMPROC(MIG)
000000040 NUMCLS(ALT)
000000020 DBCS
000000010 AWO
000000008 TRUNC(BIN)
000000004 EVENTS (not for COBOL II)
000000000 TRUNC(OPT) - assumed if not STD or BIN
000000000 NUMPROC(NOPFD) - assumed if not PFD or MIG

The following additional bits are added for COBOL for MVS & VM and COBOL for OS/390 & VM:

8000 RMODE(ANY)
4000 TEST(STMT)
2000 TEST(PATH)
1000 TEST(BLOCK)
0800 OPT(FULL)
0400 INTDATE(LILIAN)
0080 PGMNAME(LONGUPPER)
0040 PGMNAME(LONGMIXED)
0008 DATEPROC

The following example shows the PDS260I message with actual values:

```
PDS260I CSECT_   VER_  TEST_  SSRANGE_  OPT_  CMPR2_  ZWB_  NUMPR_  TRUNC_  RES_  RENT_  DYNAM_  DATA
PDS260I CZARONE II          SSRANGE          CMPR2  ZWB (MIG) (STD) RES RENT DYNAM 31
PDS260I CZARTWO II          SSRANGE OPT          ZWB NOPFD (BIN) RES RENT DYNAM 31
```

Chapter 3: Information Messages (PDS001I - PDS299I)

With the GENERATE option, this message changes to the following format:

```
PDS260I CSECTNAM MVD YNNYNNNNNNYNNNNNYYYNNYNNNNNNNNNNYYYNNNN
```

Start Column	Value
9	CSECT name
18	II , MVS or OS depending on compiler level
20	D (for DB2), O (for ONLINE), B (for both), I (for IMS) or S (secondary)
23	Y for ADV
24	Y for APOST
25	Y for DATA(31)
26	Y for DECK
27	Y for DUMP
28	Y for DYNAM
29	Y for FASTSRT
30	Y for FDUMP
31	Y for LIB
32	Y for LIST
33	Y for MAP
34	Y for NUMBER
35	Y for OBJECT
36	Y for OFFSET
37	Y for OPTIMIZE
38	Y for OUTDD
39	Y for NUMPROC(PFD)
40	Y for RENT
41	Y for RESIDENT
42	Y for SEQUENCE
43	Y for SIZE(MAX)

Start Column	Value
44	Y for SOURCE
45	Y for SSRANGE
46	Y for TERMINAL
47	Y for TEST
48	Y for TRUNC(STD)
49	Y for WORD
50	Y for VBREF
51	Y for XREF
52	Y for ZWB
53	Y for NAME
54	Y for CMPR2
55	Y for NUMPROC(MIG)
56	Y for NUMCLS(ALT)
57	Y for DBCS
58	Y for AWOD
59	Y for TRUNC(BIN)
60	Y for EVENTS - not for COBOL II
63	Y for RMODE(ANY) - not for COBOL II
64	Y for TEST(STMT) - not for COBOL II
65	Y for TEST(PATH) - not for COBOL II
66	Y for TEST(BLOCK) - not for COBOL II
67	Y for OPT(FULL) - not for COBOL II
68	Y for INTDATE(LILIAN) - not for COBOL II
71	Y for PGMNAME(LONGUPPER) - not for COBOL II
72	Y for PGMNAME(LONGMIXED) - not for COBOL II
75	Y for DATEPROC - not for COBOL II

Chapter 3: Information Messages (PDS001I - PDS299I)

PDS261I Program terminated by CONDEND for message PDSxxxx

Indicates that CONDEND was satisfied by the displayed message number and StarTool FDM terminates without executing any additional subcommands. StarTool FDM reads and ignores all following subcommands until the next END or QUIT subcommand.

```
PDS262I LOC NAME      VALUE      DESCRIPTION
--- ----            -
off dname           dvalue    dnotes
...
```

Documents an individual directory entry:

off hexadecimal offset.
dname name of this field from the MVS Debugging Handbook.
dvalue character, decimal or hexadecimal representation of directory data.

Note: character data is provided for PDS2NAME and PDS2MNM. Names beginning MAN... are for PDSMAN/MVS statistics. Decimal data is followed by a period or K.

Except for the decimal and the mentioned character displays, all other values are displayed in hexadecimal.

dnotes an interpretation of the displayed data.

The following example shows the PDS262I message with actual values:

```
PDS262I LOC NAME      VALUE      DESCRIPTION
PDS262I --- ----            -
PDS262I 00 PDS2NAME PDS99      MEMBER NAME
PDS262I 08 PDS2TTRP 010907     TTR OF FIRST BLOCK OF DATA
PDS262I 0B PDS2INDC B1         ALIAS; 1 TTRS FOLLOW; 17 HALFWORDS
```

PDS263I Linklist data sets can not use new secondary extents until after IPL

This warning message from the DSNAME subcommand indicates that this linklist data set was allocated in extents but linklist data sets can not load members added in a new secondary extent until after a system IPL. A LLA stop and start does not correct this situation.

Even though the FIXPDS subcommand can add an extent to a linklist data set, it is not recommended (see message PDS542W) due to the IPL requirement. Be careful that a linklist data set is not extended into a new secondary extent for the same reason.

Remove any secondary allocation quantity on linklist data sets with FIXPDS SPACE(0) so that a secondary extent is not taken without being detected; however, you might also make these data sets larger to reduce the need for an extent.

If you need to extend a data set, add a one-time extent with the following steps:

1. Type a command like FIXPDS ADDCYL(30) or FIXPDS ADDTRK(450) (expect to see a PDS452W warning message).

2. Copy or link in the new or replacement modules (any references to these modules through LLA will be to the previous levels)
3. Quiesce the system and prepare to IPL.
4. Compress the data set if necessary as a standalone batch job.
5. IPL so that the linklist library is reopened and members in the new data set extent can be loaded.

PDS264I This is a null VSAM data set

Indicates that the current data set is a new VSAM data set that has never been initialized. StarTool FDM attempts to open this data set. Enter a dummy record and delete it so that the data set can be used by subsequent StarTool FDM processes.

This will fail on the delete (or ERASE) step for VSAM ESDS data sets; however, StarTool FDM is still able to use the data set.

PDS265I STARTOOL *n.n.n* used on *cccc/mm/dd* at *hh:mm* AM/PM by *userid*

Indicates that StarTool FDM was invoked by the named user.

Request that this monitoring message be generated and sent to any TSO user with the SEND command by changing SAMPOPT4 to add #NUSERID=*userid* (where *userid* is the TSO user to notify).

PDS270I Pseudo registers:

NAME	ORIGIN	LENGTH
<i>regname</i>	<i>starto</i>	<i>length</i>
<i>regname</i>	<i>starto</i>	<i>length</i>

...

This MAP message displays pseudo registers similar to the output generated by the linkage editor. The first field is the pseudo register name, followed by the offset and length.

PDS271I Total length of pseudo registers *totlen*

This MAP message displays the total length of all pseudo register definitions.

PDS272I location *nn* requests cumulative pseudo register length

This MAP message displays the offset in the module that requests a cumulative pseudo register length. This is the location of a CXD assembler statement.

The following example shows the PDS270I, PDS271I and PDS272I messages with actual values:

```

PDS270I Pseudo registers: NAME      ORIGIN  LENGTH
                        CURRENT  000000  000004
                        IKSUTO   000004  000004
                        *SCR0213 000008  000004
PDS271I Total length of pseudo registers      000008
PDS272I Location 20 requests cumulative pseudo register length
    
```

Chapter 3: Information Messages (PDS001I - PDS299I)

PDS273I Output data set is *dsname*

The default output or compare data set name is displayed by this message. This data set name was substituted for the * in the data set name position of the COPY or COMPDIR subcommand.

PDS274I Member order is ascending

This FIXPDS message specifies that the data set has a normal directory and that ORDER could not find any (or any more) entries to fix.

PDS275I The LLA status for *member* can not be determined due to { *TASKLIB=dsname/LINKLIB=dsname* }

Generated by the LLA subcommand for the SYNC operator if a system BLDL returns a status indicating that a member was found in a TASKLIB data set or in a linklist data set which is higher in the linklist concatenation order.

Since it cannot be determined if the module's directory entry is synchronized with its LLA entry, the LLA subcommand refreshes the module to assure that it is current.

PDS276I A ZAP IDR record was added

Generated by the DUP and REPRO subcommands if they add a ZAP IDR record to a load member due to an ADDZAP keyword.

PDS277I No subcommands are restricted

Generated by the CONTROL subcommand with RESTRICTED if no subcommands are restricted.

PDS278I No object code was found

Generated by the READOBJ subcommand if no TXT records are present in a member; no output is generated by READOBJ.

PDS279E *memname* is an orphan member

This SMPGEN subcommand encountered an element that had no matching main member (an orphan). Investigate this problem before proceeding.

If this member is a main member, alter its status with an ATTRIB subcommand and an UNALIAS operand.

PDS280I System serial: *serial*; CPU TYPE: *cputype*

This CONTROL message lists the system CPU serial and type.

PDS281I Active CPUs: *cpulist*

This CONTROL message lists the active CPU numbers.

PDS282I SMF ID: *smfid*; System Mode: *sysmode*

This CONTROL message lists the SMF identifier and the system mode (370, MVS/XA or MVS/ESA).

PDS283I Maintenance data:maintdata

This CONTROL message lists 32 bytes of system maintenance data.

PDS284I IPL Date: *yyyy/mm/dd yyyy.jjj*; Time: *hh:mm*

This CONTROL message lists the date and time of the last IPL.

PDS285I IPL Type: *ipltype*; Volume: *volser*; UCB:*ucb*

This CONTROL message lists the type of IPL (WARM, CVIO or CLPA), volume serial and UCB address of the IPL volume.

PDS286I Master Catalog dsname: *dsname*; Volume: *volser*; UCB:*ucb*

This CONTROL message lists the data set name of the master catalog and the volume serial and UCB address of the catalog volume.

**PDS287I OS/390 *x.x.x*; DFSMS *x.x.x*; DFSMS*typ*; ISPF *x.x*;
VTAM *x.x*; TSO/E *x.xx.x*; RACF *x.xx.x*;**

or

**PDS287I MVS SP *x.x.x*; DFSMS *x.x.x*; DFSMS*typ*; ISPF *x.x*;
VTAM *x.x*; TSO/E *x.xx.x*; RACF *x.xx.x*;**

or

**PDS287I MVS SP *x.x.x*; DFP *x.x.x*; ISPF *x.x*;
VTAM *x.x*; TSO/E *x.xx.x*; RACF *x.xx.x*; DF/HSM *x.x.x*;**

This CONTROL message lists the level of various software products.

- OS/390 taken from flags at CVTOSLV1.
- MVS SP taken from flags at CVTOSLV0 and CVTOSLV1.
- DFSMS taken from data pointed to by CVTDFA.
- DFSMS*typ* indicates DFSMS*Shsm*, DFSMS*Sdss* and DFSMS*Srmm* if licensed from bits in the CVTDFA for DFSMS systems.
- DFP taken from data pointed to by CVTDFA.
- ISPF taken from the ISPF variable called ZENVIR. This message is only available in dialog mode.
- VTAM taken from data pointed to by PSAATCVT.
- TSO/E taken from data pointed to by CVTTVT.
- RACF taken from data pointed to by CVTRAC.
- DF/HSM taken from data pointed to by CVTHSM if DFP level.

PDS288I Current NUCLEUS ID:*x*; I/O CONFIG ID:*xx*

This CONTROL LISTENV message shows the identifier used for the NUCLEUS for the last IPL and the suffix used for the current I/O configuration. Note: if HCD is in use, the I/O configuration field may not be maintained.

Chapter 3: Information Messages (PDS001I - PDS299I)

PDS290I *COMBINE/SEPARATE* is in progress

This COMBINE or SEPARATE subcommand has given control to the record copy portion of the subcommand code.

PDS291I '*dsname*' is not allocated

This WHOHAS or USAGE ALL message indicates that there are no allocations of the data set reported by the MVS GQSCAN facility.

PDS292I '*dsname*' is allocated as follows:

PDS292I JOBNAME SCOPE TYPE STATUS SYSTEM RESERVE

This WHOHAS or USAGE ALL message displays data set allocations reported by the MVS GQSCAN facility as follows:

JOBNAME	Jobname allocated
SCOPE	STEP, SYSTEM or SYSTEMS
TYPE	SHR or OLD
STATUS	USING or WAITING
SYSTEM	System name
RESERVE	NO, YES or CONVERTED (if changed from RESERVE to ENQUEUE)

PDS293I Member found in *libtype* DSNAME=*dsname*

This FINDMOD message is a feedback message for found modules. *libtype* is TASKLIB, LINKLIST or LPALIB.

PDS294I Member found in *loctype*

This FINDMOD message is a feedback message for found modules. *loctype* is LPA, MLPA or NUCLEUS.

PDS295I Address: *hexaddr* Length: *hexlen*

This FINDMOD message is a feedback message for found modules.

PDS296I Found at entry: *entrypt*

This FINDMOD message is a feedback message for found modules.

PDS297I *modname* found in *loctype*

This FINDMOD message is a feedback message for found modules. *loctype* is LPA, MLPA or NUCLEUS.

PDS298I There are *nn* users allocated to this data set

Produced when you enter a data set or request a WHOHAS or USAGE subcommand and at least one other user is allocated to the data set. To see who the other users are, type USAGE ALL.

PDS299I All members are synchronized

Produced when you use a SYNC operand on a LLA subcommand and the directory entries for the member group checked have synchronized disk and LLA directory entries. The LLA subcommand need not continue.

Chapter 3: Information Messages (PDS001I - PDS299I)

ACTION MESSAGES (PDS300A - PDS399A)

4

PDS300A ENTER OPTION -- DSN=*dsname*,VOL=*SER=volume* MEM=*groupname*

The current data set name, the associated disk volume name and the current member group name are displayed in this subcommand prompt.

The MEM= keyword has a different format depending on the current member group as in the following examples:

- | | |
|--------------|---|
| MEM= | No member group is current; you may not refer to the current member group with * notation. |
| MEM=IEANUC01 | Current member group contains a single member named IEANUC01. |
| MEM=IEASYS* | Current member group contains members named IEASYS. |
| MEM=TRT/ | Current member group contains members with TRT anywhere in the member name. |
| MEM=TR??B* | Current member group contains members with TR in the first two letters and B in the fifth letter of member names. |
| MEM=BB:FAN | Current member group contains members with names in the range BB through FAN. |
| MEM=(DISASM3 | Current member group contains a list of members of which the first is a member called DISASM3. |
| MEM=(TRT/ | Current member group contains a list of member groups of which the first is a member group containing members with TRT anywhere in the member name. |

Note: this is the standard StarTool FDM input prompting message; no specific response is required. You can enter any appropriate StarTool FDM subcommand.

PDS380A Reenter the search string with delimiters:

Because of a previously noted error condition, the search string is not valid. Reenter the string and its delimiters.

For example, to search for the characters ABC, type /abc/

Chapter 4: Action Messages (PDS300A - PDS399A)

PDS381A Reenter the data set name, volume and disposition:

Because of a previously noted error condition, the data set name entered could not be used. Another data set name and any volume or disposition data must be reentered.

The previously entered data set name and any other operands are discarded. Reenter the data set name (qualified or not), any volume serial (if required) and a disposition (if desired).

For example, to use an uncataloged data set called 'SYS1.ANYWHERE' on volume SYSALT, type 'sys1.anywhere' vol(sysalt)

As another example, to use one of your data sets called 'USERID.SPF.LIB', type spf.lib

PDS382A Reenter the first TTR:

Because of a previously noted error condition, the first TTR address entered could not be used and must be reentered as a string of one to six hexadecimal digits.

For example, to enter 002A03 as a TTR address, type 2a03

PDS383A Reenter the second TTR:

Because of a previously noted error condition, the second TTR address entered could not be used and must be reentered as a string of one to six hexadecimal digits.

For example, to enter 0034B15 as a TTR address, type 34b15

PDS384A Reenter the HEX offset:

Because of a previously noted error condition, the hexadecimal offset entered could not be used. The offset value must be reentered as a string of one to six hexadecimal digits.

For example, to enter 000AF0 as a offset, type af0

PDS385A Reenter the SSI data:

Because of a previously noted error condition, the hexadecimal SSI information entered could not be used. The SSI data must be reentered as a string of one to eight hexadecimal digits.

For example, to enter CB304296 as SSI information, type cb304296

PDS386A Reenter the replacement string with delimiters:

Because of a previously noted error condition, the replacement string is not valid. The string and its delimiters must be reentered.

For example, to replace the string with AB", type /abc/

PDS387A Reenter the hex offset:

Because of a previously noted error condition, the hexadecimal offset entered for the DSCB OFFSET could not be used. The offset value must be reentered as a string of two hexadecimal digits. For example, to enter 002C as a offset, type 2c

PDS388A Reenter the hex verify string:

Because of a previously noted error condition, the hexadecimal value entered for the VERIFY string could not be used. The VERIFY value must be reentered as a string of two to 80 hexadecimal characters. For example, to enter the characters IBM as a VERIFY string, type c9c2d4

PDS389A Reenter the hex replace string:

Because of a previously noted error condition, the hexadecimal value entered for the REPLACE string could not be used. The REPLACE value must be reentered as a string of two to 20 hexadecimal characters. For example, to enter the characters IBN as a REPLACE string, type c9c2d5

PDS390A Should this member be restored (Yes/No/Can) ?

The RESTORE subcommand reached a decision point and requires a response before continuing. You can cancel the RESTORE subcommand or you can restore or ignore this deleted member. If you ignore this deleted member, RESTORE scans the data set for the next deleted member and repeats this prompting sequence.

To restore the identified member, type yes
To not restore the identified member, type no
To terminate the prompting sequence, type can

PDS391A Should these members be renamed (Y/N) ?

The RENAME subcommand identified the members to be renamed. A response is required before any changes are made to your data set.

To rename the identified members, type y
To not rename the identified members, type n

PDS392A Should this data set be modified (Y/N) ?

The FIXPDS subcommand identified potential problems with your requested action. A response is required before continuing with actual changes to the current data set.

To modify this data set by FIXPDS, type y
To not modify this data set by FIXPDS, type n

PDS393A Should this member be deleted (Y/N) ?

A DELETE subcommand was entered without a member name. In this case, StarTool FDM requires a response to confirm that you want to delete the current member.

Note: If you want to avoid this prompt in the future, type DELETE * when a single member is the current member. If more than one member is to be deleted, you still prompted (by the PDS394 message).

To delete the identified member, type y
To not delete the identified member, type n

Chapter 4: Action Messages (PDS300A - PDS399A)

PDS394A Should all of these members be deleted (Y/N) ?

A DELETE subcommand was entered that deletes multiple members. A response is required before changing the data set.

To delete identified members, type y

To not delete identified members, type n

PDS395A Should these members be submitted (Y/N) ?

A SUBMIT subcommand was entered that submits multiple members. StarTool FDM wants to confirm that these members should be submitted.

To submit identified members, type y

To not submit identified members, type n

PDS396A Should ATTRIB continue (Y/N) ?

An ATTRIB subcommand was entered that modifies the attributes of the displayed members. A response is required before changing the members.

To change identified members, type y

To not change identified members, type n

PDS397A Should this member be modified (Y/N) ?

A duplicate or out-of-order member was identified by FIXPDS ORDER. A response is required before changing the data set.

If the FIXPDS subcommand should continue, type y

If the FIXPDS subcommand should not continue, type n

PDS398A Should this alternate data set be modified (Y/N) ?

The FIXPDS subcommand with MODDSNAME is about to modify a data set with PDSEAUTH. A response is required before continuing with changes to this data set. This is not the current or active data set.

To modify this data set by FIXPDS, type y

To not modify this data set by FIXPDS, type n

PDS399A Should this data set be renamed (Y/N) ?

The FIXPDS subcommand with NEWDSNAME is about to rename a data set with PDSEAUTH. A response is required before continuing with changes to this data set. This is done by rewriting the DSCB for the data set. There are two restrictions for safety: the data set cannot be cataloged and the VTOC for that volume cannot be indexed.

To rename this data set by FIXPDS, type y

To not rename this data set by FIXPDS, type n

WARNING MESSAGES (PDS400W - PDS599W)

5

PDS410W VOLSET(*volname*) is still in effect

The displayed default volume name will be used unless a VOLUME parameter is entered.

PDS412W Reallocation without VOLSET will be attempted

The allocation attempt failed. StarTool FDM attempts reallocation without the VOLSET parameter assuming that you really wanted a cataloged data set. If this is not the case, you must enter another CHANGE subcommand to get the correct data set.

PDS420W StarTool FDM will not initialize after *n* days

Issued when you enter StarTool FDM if you have seven or less days remaining in your evaluation period for StarTool FDM. Contact your systems programmer or your marketing representative for help before this period expires.

PDS441W *thename* (Weak)

This external name is a weak unresolved external reference. This name was not present when the module was linked. If this module is relinked, the linkage-editor can resolve references to this name but its presence is not required.

PDS442W *name* (Missing)

This external name is an unresolved external reference. This name was not present when the module was linked. If this module is relinked, the linkage-editor can resolve references to this name; however, error messages are generated if this name is missing during the module linkage-edit.

PDS443W MAXBLK has been raised to the data set LRECL value

REPRO and DUP do not allow an output blocksize lower than the data set logical record length. For RECFM=V data sets, MAXBLK is set to the LRECL+4; for RECFM=F data sets, MAXBLK is set to the LRECL.

PDS444W MAXBLK exceeds the data set blocksize

REPRO and DUP can create data blocks larger than the data set blocksize; however, unless the BLKSIZE is changed to the maximum data blocksize later, most programs referencing the large blocks fail with I/O errors.

Chapter 5: Warning Messages (PDS400W - PDS599W)

PDS450W Search library '*dsname*' was bypassed

You do not have READ access to the displayed data set. FINDMOD searches the linklist/lpalib library concatenations for redundant modules by allocating and opening each one. To avoid S913 ABENDs, it first issues a RACROUTE to check that you have READ authority for the data set and bypasses data sets that you are not allowed to read.

Bypass the linklist/LPALIB search entirely by specifying the NOSEARCH keyword on the FINDMOD subcommand.

PDS451W All members in this data set will be lost

FIXPDS RESET deletes all members from the data set.

PDS452W {*\$\$\$\$SPACE/manmember*} member is present

PDSMAN/MVS is monitoring the data set for space usage. EXPANDDIR and FREEDIR must not be performed without first deleting the PDSMAN/MVS control member.

The PDSMAN/MVS control member is named *\$\$\$\$SPACE*, but its name can be changed in your PDSMAN/MVS installation. If the PDSMAN/MVS control member is not *\$\$\$\$SPACE*, parameter PDSMANM in macro PDS#SIZE of the StarTool FDM installation should be changed to the control member name.

If this message displays, FIXPDS terminates without any further action.

To expand the directory for this data set correctly, perform the following StarTool FDM subcommands:

DELETE <i>\$\$\$\$SPACE</i>	remove the PDSMAN/MVS control member)
FIXPDS EXPANDDIR...	expand the directory as desired
COMPRESS	compress to resume PDSMAN/MVS monitoring

PDS460W No history data is available

This module has no associated history (translator, zap or user-supplied) IDR data. This module was linked by an obsolete linkage editor.

To reconstruct this member and any aliases with StarTool FDM and the linkage editor, type MAP member RELINK (and run the generated JCL in the background for the linkage editor).

PDS461W Records may be truncated

DUP is copying to a data set with a smaller LRECL. Records may be truncated during the copy.

PDS462W Records are being padded with *blanks/the PAD character*

DUP is copying to a data set with a larger LRECL. Records are being padded with blanks (default is X'00').

PDS463W THIS LINKLIST DATA SET WAS EXTENDED; YOU MUST IPL TO USE NEW EXTENTS

This message from the DSNAME subcommand indicates that this linklist data set was extended since the last IPL. Members in these new extents cannot be loaded until after a system IPL. An LLA stop and start does not correct this situation.

Any reference to the modules located in the new extents through LINK, LOAD, ATTACH or XCTL get S106, S706 or S806 ABENDs. The VERIFY subcommand ABENDs on these modules as it loads each member unless NOLOAD is specified.

Use StarTool FDM to determine which members reside in the new extent from the USAGE ALL output as shown below:

PDS184I	EXTENT	UCB	LO	TT-HI	TT	TRACKS	LOW	CCHH-HIGH	CCHH
PDS184I	0	418	00.00	04.73		1140	04.B1.00.00	04.FC.00.0E	
PDS184I	1	418	04.74	06.08		405	02.D7.00.00	02.F1.00.0E	

To find all members that reside in the second extent, type a subcommand like:

```
IF : TTR(47401:60801) THEN(SUBLIST)
```

To copy these members to another library and delete them from the current data set, type the following subcommands:

```
COPY * new.library
DELETE *
```

Remove any secondary allocation quantity on linklist data sets with FIXPDS SPACE(0) so that a secondary extent is not taken without being detected; however, you might also make these data sets larger to reduce the need for an extent.

To use the members in this data set, you should perform the following steps:

1. Quiesce the system and prepare to IPL.
2. Compress the data set if necessary as a standalone batch job.
3. IPL so that the linklist library is reopened; members in the new extent can be loaded.

PDS465W THIS DATA SET IS BEING UPDATED BY *userid*

The user currently has this data set open for update and is using DISP=SHR allocation indicated a SYSZDSCB enqueue. StarTool FDM cannot open the data set for update because an ABEND S213-30 will result. In an interactive environment, StarTool FDM waits and retries once; in a batch environment, StarTool FDM retries four times.

PDS470W The program is probably in a loop

A previous interruption was noted, but an interruption point was not encountered in the program before the current interruption. Interruptions are checked for at a terminal input or output and when the input data set is read.

Chapter 5: Warning Messages (PDS400W - PDS599W)

This message means that StarTool FDM or a supporting TSO command was in a CPU loop or an attention key (PA1) was pressed before a subcommand process could complete. For more details, see *"Appendix D. Attention Processing" in the StarTool FDM Reference Guide.*

StarTool FDM action: Terminate the looping subcommand or process immediately. Give control to the previously entered subcommand (the delayed subcommand).

PDS480W Compress may not be interrupted

An interruption was received during a COMPRESS operation but is ignored since the data set can be destroyed if IEBCOPY or PDSFAST does not complete.

PDS482W Blocksize should be evenly divisible by the DCB LRECL

The requested BLKSIZE is not a multiple of the logical record length for a RECFM=FB data set.

PDS484W Copy should not be interrupted

An interruption was received during a COPY operation but is ignored to protect the integrity of the target data set.

PDS500W No COBOL Task Global Table was found

This member contains COBOL CSECTS; however, the TGT could not be located after the member was loaded. No COBOL compile options can be reported.

PDS502W This module was compiled with ENDJOB and mixed RES and NORES options

Some of the COBOL routines in this module were compiled with the RES compiler option; others had the NORES option; and ENDJOB was in effect for at least one routine. According to the COBOL programmer's guide, this combination is not recommended.

PDS503W This module was compiled with mixed RES and NORES options

Some of the COBOL routines in this module were compiled with the RES compiler option; others had the NORES option. This leads to errors since some routines requested resident compiler routines and others requested no resident compiler routines.

PDS510W This is a null member

This member contains no data.

PDS520W No information is available

No .? (extended help) information is available – There are current no warning or error messages.

To use the extended help facility, type .? immediately after any subcommand that receives warning PDSnnnW or error PDSnnnE messages. Up to five of the most recent warning or error message explanations are requested automatically from the HELP data set by StarTool FDM.

To test the extended help facility when no messages are current, type .? twice. The first entry results in a PDS520W message; the second entry results in an explanation of the PDS520W message.

PDS530W This data set is not partitioned

Issued after a CHANGE subcommand if the data set is not partitioned. Several subcommands are defined only for partitioned data sets and they are not available for this data set.

PDS531W You should use message prefixes; enter: TSO PROFILE MSGID

StarTool FDM honors PROFILE NOMSGID by writing messages without the PDSnnn identifiers. Use message prefixes so that if messages are issued, you can refer to this reference material.

To get reference material on a StarTool FDM message returned in line mode, type HE MS MS(PDSxxx, PDSyyy) (where PDSxxx and PDSyyy are messages you want explained).

Messages above PDS399 (warning and error messages) are explained with the extended help facility. To use the extended help facility after warning and/or error messages are received, type a .? command; up to five warning or error message explanations from the last subcommand display from the HELP data set.

In the ISPMODE log, place the cursor over a message identifier (the PDSnnn part) and press RCHANGE. Information for that message is placed into the log.

PDS532W Multiple input members will be unloaded to this sequential data set

The output data set is sequential; IEBCOPY or PDSFAST creates an unload format output data set.

PDS533W This is a {DATA/INDEX} component

This DATA or INDEX component of a VSAM data set is being accessed instead of the cluster. For the name of the associated cluster, see the associated data set messages (PDS1211) following this message.

Access VSAM data sets through the cluster name. Statistics for this component in the USAGE command are taken from the associated cluster.

When a VSAM component is accessed directly, data cannot be accessed in key order. For a variable RRDS, only control interval access can process the DATA component.

For DATA or INDEX components, the LIST, FIND and REPLACE subcommands support control interval access using the DUMP or BLOCK display formats. Instead of accessing individual VSAM records, each GET or PUT refers to a VSAM control interval record.

Control interval access is useful if a VSAM data set has logical errors. REPLACE can repair the error. Since only the component is opened for update, the next access of the data set through the related cluster gets warning errors because of the differing time stamps.

Chapter 5: Warning Messages (PDS400W - PDS599W)

PDS540W csectname/entryname is not referenced

The XREF subcommand is documenting a CSECT or ENTRY symbol that is not referenced by any other CSECT in the module, which can be reached from the entry point. If this module has aliases with differing entry points it is likely that this symbol is referenced through one of the aliases. To check if this is the case, type an XREF subcommand for each of the module's aliases.

PDS541W SYS1.NUCLEUS should not be allocated in extents -- IPL will fail!!!

The FIXPDS subcommand can add an extent to a data set even if it was originally allocated without extents. However, MVS does not support extents in the SYS1.NUCLEUS data set according to the IBM SYSGEN manual.

Do not add an extent to the SYS1.NUCLEUS data set. Reallocate SYS1.NUCLEUS instead of trying to extend it.

This message is issued for any data set with DSNAME 'xxx.NUCLEUS' (where xxx is a valid DSNAME prefix); The extent restriction only applies to 'SYS1.NUCLEUS' during the IPL process. The warning is issued on other data sets with the NUCLEUS suffix in case the data set is renamed and used as a MVS NUCLEUS at a later time.

PDS542W This data set is in the linklist; an IPL is required to use any extents

The FIXPDS subcommand can add an extent to a data set even if it was originally allocated without extents. However, extents added to data sets in the linklist (LNKLSTxx in SYS1.PARMLIST) are not useable until an IPL occurs. An LLA stop and start does not correct this situation. See message PDS263I for more information on extending a linklist data set safely.

PDS551W No matching data was found

This FIND or REPLACE subcommand did not locate a matching character string in any of the members searched.

If FIND with THEN(SUBLIST/ MEMLIST) or ELSE(SUBLIST/ MEMLIST) or REPLACE with ML, MEMLIST, NEWML or SUBLIST was entered, the default member group is nullified. You must explicitly respecify the member group to establish a new default member group. You cannot use the * form of reference for the default member group.

PDS552W No matching external symbols were found

This MAP or XREF subcommand did not locate any matching module names in any of the members searched. The search was for the CSECT named in the MODULE keyword.

PDS553W No matching history data was found

This HISTORY subcommand did not locate any matching HISTORY information in the members searched. The search was for the CSECT named in the MODULE keyword.

PDS554W No matching members were found; the default member group is now null

This COMPDIR subcommand did not locate any members matching an EXIST, NOEXIST, DIRCHANGE, NODIRCHANGE, CHANGED or NOCHANGED keyword in the other data set.

When this message is issued, the default member group is also nullified. To get a new member group you must explicitly respecify it. You cannot use the * form of reference for the default member group.

PDS555W No matching members were found

This COPY subcommand did not locate any members matching your EXIST or NOEXIST keyword in the output data set.

Or, this COMPDIR subcommand with a MEMBER keyword found no matching members.

PDS556W Null member group created

The new member group contains no members. When this message is issued, the default member group is also nullified. To get a new member group you must explicitly respecify it. You cannot use the * form of reference for the default member group.

Generated by a SUBLIST with REVERSE or EXCLUDE operands if the resulting member group has no members. It can also be generated by an IF or FIND subcommand with THEN(SUBLIST/MEMLIST) or ELSE(SUBLIST/MEMLIST) if no members match the criteria; or by a REPLACE, HISTORY or MAP subcommand if the ML, MEMLIST, NEWML or SUBLIST operands result in no selected members.

PDS557W No error members were found

VERIFY with MEMLIST or SUBLIST did not find any members with warning or error messages (PDS400W through PDS999E messages or non-standard member name messages).

PDS560W Member *original* was renamed to *newname*

This duplicate member was renamed to the name shown. Now you can access both member names. You may want to rename or delete one or both members after you have a chance to review them.

**PDS570W PDS#SECI and PDS#OPT4 are not co-ordinated; PDS#OPT4 data:
Security tables *tblname1 tblname2 tblname3 ...***

Issued in response to a CONTROL SECURITY command when the names given PDS#ACFT macros in PDS#OPT4 do not match the operands of the PDS#ACFN macros of PDS#SECI.

The Security tables message for PDS#OPT4 and compare it to the similar message for PDS#SECI just below the PDS194I message that follows. You can ignore this message if only a single security table is used in PDS#OPT4 since the PDS#SECI routine is not called in this situation.

Chapter 5: Warning Messages (PDS400W - PDS599W)

**PDS575W LLA status can not be determined due to {TASKLIB=dsname/
LINKLIB=dsname}**

Generated by the VERIFY subcommand for LLA managed linklist data sets if a system BLDL returns a status indicating that a member was found in a TASKLIB data set or in a linklist data set that is higher in the linklist concatenation order.

This can be an error situation for LINKLIB=dsname because this module is in at least two different linklist data sets. Use the FINDMOD subcommand to search the entire linklist.

For TASKLIB=dsname, this indicates that a module with the same name as the linklist module is in a JOBLIB, STEPLIB or other TASKLIB. This can be an error for some applications.

PDS576W The disk directory entry and LLA entry are not synchronized

Generated by the VERIFY subcommand for LLA managed linklist data sets if a system BLDL returns a status indicating that a member in this library is out of synchronization. This means that the module's attributes have been updated or the module has been relinked (or moved) but the LLA entry has not been refreshed.

Use the LLA subcommand or some other method of refreshing LLA for this member.

PDS577W Not known to LLA

Generated by the VERIFY subcommand for LLA managed linklist data sets if a system BLDL indicates that the member is not in this library. The member is physically in the library.

Use the LLA subcommand or some other method to inform LLA that this member is present.

PDS580W DCB changes only affect the data set attributes

Generated by the FIXPDS subcommand if the RECFM, LRECL or BLKSIZE of a data set is to be modified. This is a reminder that only the data set label (the FMT1 DSCB) is modified when these DCB parameters are updated.

This can be a problem if you reduce the BLKSIZE of a data set since any existing members of the data set retain their previous blocksize and you are not able to access members that have a physical blocksize larger than the BLKSIZE in the FMT1 DSCB.

To test if any members exceed a given BLKSIZE before such a change, type a subcommand such as VERIFY : MAXBLK(9040) to identify members with block sizes above 9040 characters. A source member can be reblocked before a BLKSIZE change with a subcommand such as REPRO member MAXBLK(9040).

After reducing the blocksize, find members with blocksize problems with VERIFY as above. You do not need the MAXBLK keyword. Similarly, the REPRO subcommand can reblock these source members. It also does not need a MAXBLK keyword.

PDS590W StarTool FDM SuperEdit option expires in n days

Issued when you enter StarTool FDM if you have seven or less days remaining in your evaluation period for the StarTool FDM SUPEREDIT option. Contact your systems programmer or your marketing representative for help before this period expires.

ERROR MESSAGES (PDS600E - PDS999E)

6

PDS620E MAC, MACUPD, MOD, SRC or SRCUPD must be specified

The element type operand was not entered. SMPGEN requires that you specify the type of SMP/E element being generated. MAC produces ++MAC elements. MACUPD produces ++MACUPD elements. MOD produces ++MOD elements. SRC produces ++SRC elements, and SRCUPD produces ++SRCUPD elements.

PDS620E DISTLIB is required

This SMPGEN subcommand requires a DISTLIB(ddname) operand so that the generated SMP/E elements can also include this information. SMP/E requires DISTLIB so it can determine the distribution library.

PDS612E TXLIB, LKLIB, RELFILE and INLINE are mutually exclusive

This SMPGEN subcommand was entered with two or more operands from TXLIB(ddname), LKLIB(ddname), RELFILE(number) and INLINE. Only one of these operands is allowed.

PDS620E memname is an alias member

This SMPGEN subcommand encountered a SRC element that had an alias. SMP/E does not allow alias ++SRC elements. Use MAC since aliases are supported. SMPGEN automatically generates the appropriate MALIAS operands.

PDS622E TXLIB, LKLIB, RELFILE or INLINE must be specified

A SMPGEN subcommand must contain a TXLIB(ddname), LKLIB(ddname), RELFILE(number) or INLINE operand. To generate data inline, specify the INLINE keyword; otherwise, specify the source of the data with one of the other keywords.

PDS623E LKLIB is not allowed with typeop

This SMPGEN subcommand contains a MAC, SRC, MACUPD or SRCUPD operand and an LKLIB(ddname) operand. LKLIB is only supported by a MOD operation.

PDS624E typeop does not support TXLIB or RELFILE

This SMPGEN subcommand contains a SRCUPD or MACUPD operand with a TXLIB(ddname) or RELFILE(number) operand. These operands are not supported since these elements are required to be generated inline.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS630E SSI is not allowed with *typeop*

This SMPGEN subcommand contains a MACUPD, MOD or SRCUPD operand with a SSI(hexdata) operand. SMP/E does not support the SSI operand for these element types.

PDS631E JCLIN member *memname* is not in this library

This SMPGEN subcommand had a MOD element with a JCLIN(memname) operand; the JCLIN member could not be found. SMPGEN requires the JCLIN member to reside in the same data set as the SMP/E object elements.

PDS632E SYSLMOD is required to build ++JCLIN

This SMPGEN subcommand contains a MOD operand and you are processing a load library. SMPGEN automatically constructs JCLIN statements for SMP/E; however, you must enter a SYSLMOD(name) operand to define the low level DSNAME qualifier of the SYSLMOD DD statement. As an example, if SYSLMOD(PDSLOAD) were specified, SYSLMOD statements similar to the following would be generated:

```
//SYSLMOD DD DISP=SHR,DSN=SYS1.PDSLOAD
```

PDS633E SYSLMOD is only permitted with MOD and RECFM=U

This SMPGEN subcommand contains a SYSLMOD(name) operand; however, you are not processing a load library or you did not specify the MOD operand. Other element types do not support the SYSLMOD operand.

PDS640E SYSLIB is not allowed for MOD

This SMPGEN subcommand contains a MOD operand with a SYSLIB(ddname) operand. SMPGEN with MOD supports the SYSLMOD operand but not the SYSLIB operand.

PDS641E JCLIN is only allowed with MOD and RECFM=F

This SMPGEN subcommand contains a JCLIN(memname) operand; however, you are processing a load library or you did not specify the MOD operand. Other element types do not support the JCLIN operand.

PDS642E DISTMOD is not permitted with *typeop*

This SMPGEN subcommand contains a MAC, MACUPD or MOD operand with a DISTMOD(ddname) operand. DISTMOD is only supported for SRC or SRCUPD operands.

PDS673E *member* was not updated; LLACOPY failed

The LLA subcommand completed with an error; the LLA directory entry for this member is not affected.

Either insufficient storage was available or an I/O error was encountered in the data set. Try a VERIFY subcommand to get more information.

PDS680E This volume may be contaminated by DOS; DS4DOCVT is set

Issued by the VUSE subcommand to indicate that DOS may have contaminated the VTOC (DS4DOCVT in DS4VTOCI is set). Contact your systems programmer.

PDS681E The VTOC on this volume has been damaged; DS4DIRF is set

Issued by the VUSE subcommand to indicate that the VTOC damage bit has been set (DS4DIRF in DS4VTOCI). Contact your systems programmer.

PDS683E This volume has no free space

Issued by the VUSE subcommand to indicate that no free space is available on this volume. Delete or move any possible data sets and contact your systems programmer.

PDS684E The FORMAT 4 DSCB could not be read

Issued by the VUSE subcommand to indicate that the Format 4 DSCB was required to analyze the volume usage but it could not be found. Contact your systems programmer.

PDS685E The FORMAT 5 DSCB could not be read

Issued by the VUSE subcommand to indicate that the Format 5 DSCB was required since the volume is not indexed, but it could not be found. Contact your systems programmer.

PDS686E Volume volser was not found

Issued by the VUSE subcommand to indicate that the volume is not currently available. Check to insure that the volume name is correct before contacting your systems programmer.

PDS690E OFFSET and VERIFY are required

Issued by FIXPDS DSCB if an OFFSET value is entered without a corresponding VERIFY value. Multiple groups of OFFSET, VERIFY and REPLACE can be entered in a list; the last group can have the REPLACE values omitted. For example,

```
DSCB(11 2222 3333 4444 555555 66) is valid and
DSCB(11 2222 3333 4444 555555)      is valid, but
DSCB(11 2222 3333 4444)              is not valid.
```

PDS691E OFFSET must be between 2C and 8C

Issued by FIXPDS DSCB if an OFFSET value is below 2C (in hexadecimal) or above 8C (in hexadecimal). Values below 2C modify the data set name (this is not supported) while values above 8C (or decimal 140) access past the end of a DSCB.

PDS692E VERIFY contains an odd number of digits

Issued by FIXPDS DSCB if there is an even number of hexadecimal characters in the VERIFY string. For example,

```
DSCB(11 2222 3333) is valid and
DSCB(11 222 3333) is not valid.
```

PDS693E VERIFY data does not match DSCB data

Issued by FIXPDS DSCB if any of the VERIFY strings do not match the corresponding data in the Format 1 DSCB. For example,

```
DSCB(2C F1 F2 3D 00 02) would verify correctly but
DSCB(2C F3 F2 3D 00 02) would not verify correctly.
```

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS694E REPLACE contains an odd number of digits

Issued by FIXPDS DSCB if there is an even number of hexadecimal characters in the REPLACE string. For example,

```
DSCB(11 2222 3333)   is valid and
DSCB(11 2222 33333)  is not valid.
```

PDS695E Hex data extends past the end of the DSCB

Issued by FIXPDS DSCB if an OFFSET value plus the length of a VERIFY or REPLACE string exceeds 8D (or decimal 141). For example,

```
DSCB(8C 00 01)       is valid and
DSCB(8C 0000 0123)   is not valid.
```

PDS696E FIXPDS DSCB can only be used to verify data

The FIXPDS DSCB direct update facility is disabled at your site. Contact your StarTool FDM administrator for access to this facility.

The verify-only form of this subcommand can still be used. For example,

```
DSCB(2C F1)           is valid and
DSCB(2C F1 F1)        is not valid.
```

PDS697E FIXPDS NEWSNAME has not been enabled

The FIXPDS DSCB direct rename facility for any data set was disabled at your site by rewriting the DSCB for the data set. There are two restrictions for safety: the data set cannot be cataloged and the VTOC for that volume cannot be indexed.

Contact your StarTool FDM administrator for access to this facility.

PDS698E FIXPDS MODDSNAME has not been enabled

The FIXPDS DSCB direct update facility for any data set is disabled at your site. This is not the current or active data set. Contact your StarTool FDM administrator for access to this facility.

PDS700E This range of names is invalid

The range of names is invalid (the range of names cannot progress from one name to a name lower in collating sequence). For example:

```
valid name ranges:   bb:bb bb:c bb:bc bb:b bb: :bb
invalid name ranges: bb:ba bb:a
```

PDS701E This data set is not a load library

This subcommand (or an operand) is defined only for load libraries.

PDS702E This data set is a load library

This subcommand (or an operand) is not defined for load libraries.

PDS703E This module has no external symbols

Indicates that the module was not created by a linkage editor or that it was constructed from incomplete data. This message also displays when a load module was created with the Not Editable (NE) attribute of the linkage editor.

PDS704E Module *memname* has no external symbols

Indicates that the module was not created by a linkage editor or that it was constructed from incomplete data. This message also displays when a load module was created with the Not Editable (NE) attribute of the linkage editor.

PDS705E External symbol *name* was not found

The name is not an external symbol in this member. The entry point address cannot be changed.

PDS706E This data set is a PDSE

The RESTORE subcommand is not supported for PDSE data sets.

PDS710E Invalid APF information format; member is assumed not authorized

The APF information for this module is invalid; it is assumed not authorized.

PDS711E No member names are in this range

This data set has no members whose names are in this range of names. The following examples illustrate matching members for the MEMBERS subcommand:

MEMBERS :	all members – X'00' through X'FF'
MEMBERS dd:	members from DD through X'FF'
MEMBERS :bb	members from X'00' through BB
MEMBERS aa:bb	members between AA and BB
MEMBERS (abc,d:)	member ABC and those from D through X'FF'

PDS712E No member names match this pattern

This data set has no members whose names match these pattern characters. The following examples illustrate matching members for the MEMBERS subcommand:

MEMBERS aa/	member names containing AA anywhere
MEMBERS /bb	member names containing BB anywhere
MEMBERS aa/bb	member names containing AA and BB
MEMBERS aa/?bb	member names containing AA and .BB
MEMBERS (aa/,bb/)	member names containing AA or BB
MEMBERS (a?a/,bb/)	member names containing A.A or BB

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS713E No member names match this combination name

Either no member names match the beginning range characters or the second pattern portion of the name entered. The following examples illustrate matching members for the MEMBERS subcommand:

MEMBERS aa*	members with names AA
MEMBERS *bb	members with names containing BB anywhere
MEMBERS ?bb	three character member names with BB in position 2
MEMBERS bb?	three character member names with BB in position 1
MEMBERS aa*bb	members with names AA and BB elsewhere
MEMBERS b?d*	members with B in the first position and D in position 3
MEMBERS (aa*,bb/)	members with names AA or with BB anywhere

PDS714E No members are in the data set

This data set has no member names in its directory; this is an empty PDS.

PDS715E No matching attributes were found

This IF or MEMLIST subcommand did not locate any members with the attributes specified in the members searched.

If this message is accompanied with PDS556W for a null group, the default member group is nullified. In this case, you must explicitly respecify the member group to establish a new default member group. You cannot use the * form of reference for the default member group.

PDS720E Not APF authorized; the APF data is missing

The APF data for this module is not present so it is assumed not authorized.

PDS721E Not APF authorized, the APF data is the wrong length

The APF data for this module is invalid (not one byte long) so the module is assumed not authorized.

PDS722E The APF data can not be changed

Because of missing or invalid APF data, the APF value was not modified. A module linked with an old linkage editor might not have APF data.

To reconstruct this member and any aliases with StarTool FDM and the linkage editor, type MAP member RELINK (and run the generated JCL in the background for the linkage editor).

PDS723E The RLD/CONTROL count can not be changed

The RLD/CONTROL count does not exist for this module since it was linked with an obsolete linkage editor. Since the directory does not contain a RLD/CONTROL count field, it cannot be modified.

To reconstruct this member and any aliases with StarTool FDM and the linkage editor, type MAP member RELINK (and run the generated JCL in the background for the linkage editor).

PDS724E RMODE and AMODE can not be changed -- obsolete linkage-editor

Residence and addressing mode values do not exist for this module because it was linked with an obsolete linkage editor. Therefore, they cannot be changed either.

To reconstruct this member and any aliases with StarTool FDM and the linkage editor, type MAP member RELINK (and run the generated JCL in the background for the linkage editor).

PDS726E Page alignment can not be changed -- obsolete linkage-editor

The page alignment flag does not exist for this module because it was linked with an obsolete linkage editor.

To reconstruct this member and any aliases with StarTool FDM and the linkage editor, type MAP member RELINK (and run the generated JCL in the background for the linkage editor).

PDS727E StarTool FDM can not determine if this data set is managed by LLA

The LLA subcommand refreshes the LLA directory by issuing a LLACOPY macro for selected members. Either LLA is not active and there is no LLA directory to update, or the current data set is not managed by LLA. In either case, issuing a LLACOPY macro has no effect.

This message can also be issued if the current data set is not cataloged or the CXVLLAx member of SYS1.LPALIB specifies GET_LIB_ENQ(NO) because StarTool FDM uses the LLA enqueue to determine if a library is LLA managed. In either of these cases, you can use the FORCE parameter of the LLA subcommand to continue and update the LLA status of LLA managed members.

Investigate if the current data set should be managed by LLA or determine if LLA is down and take corrective action.

PDS728E Memname not found but is in the LLA directory

This member was not found in the directory but it is known to LLA. Type an ATTRIB subcommand to display member attributes, but ATTRIB cannot be used to update any member attributes.

Recreate this member or use the LLA subcommand to inform LLA that this member was deleted.

PDS729E SYNC ignored; this is not a linklist library

Issued by the LLA subcommand with SYNC if this data set is not in the linklist. The SYNC operand cannot be used because a system BLDL only applies to TASKLIB and linklist data sets.

PDS730E Dynamic PLIB definition failed

The PDS#LIBS parameter from the PDS#OPT4 member specified a PLIB or MLIB dynamic definition. These libraries were activated with ISPF LIBDEF services but panel PDSVR440 was still not found.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS731E ISPF is not operational now

Because of a previously noted error condition, the BROWSE, EDIT, ISPF, ISPMODE, ISPXEQ and MEMLIST subcommands are disabled.

PDS733E BROWSE failed -- null member or I/O error

The ISPF BROWSE service fails on null members or members containing I/O errors (physical errors or logical record blocking errors). To investigate the cause of this failure, type VERIFY member.

PDS734E Record length exceeds 255 characters

EDIT is supported only for files with record length 255 and shorter.

PDS740E This module has no matching external symbols

The MODULE(*name*) requested is not in this member.

PDS750E A required notelist pointer was not found in this member

Because of an error condition, one or more load module records referred to in an overlay notelist record could not be located by DUP, FIXPDS or REPRO. This message may be due to data set or equipment errors. A VERIFY subcommand can provide more information.

Any directory change operation is terminated with the member in error unchanged. Any previously moved or copied members and their associated aliases are fully updated, however.

If this problem is due to data set errors, the data set may be damaged and it should be recovered.

PDS751E A notelist record could not be found for this member

Because of an error condition, an overlay notelist record could not be input by DUP, FIXPDS or REPRO. This message may be due to data set or equipment errors. A VERIFY subcommand can provide more information.

Any directory change operation is terminated with the member in error unchanged. Any previously moved or copied members and their associated aliases are fully updated, however.

If this problem is due to data set errors, the data set may be damaged and it should be recovered.

PDS752E the number of desired directory blocks must be specified

Because of a previously noted error condition, the number of directory blocks could not be determined. Therefore, the number of directory blocks must be specified to expand or reset the data set directory.

PDS761E Member *memname* is out of order

The directory is being checked by FIXPDS ORDER and the member named was found to be out of order. If you choose to correct this error, this member will be renamed to its present name.

PDS762E Member *memname* is a duplicate

The directory is being checked by FIXPDS ORDER and the member named was found to be a duplicate. If you choose to correct this error, this member will be renamed to another name that can be accessed later.

PDS763E Rename failed; this member is still called *memname*

This member could not be renamed. This is probably due to member names being too close together (like AAAAA0001, AAAAA0002, etc.). If you can generate some room between member names you may want to retry this command later.

PDS770E A search string is required

A default search string cannot be used since a default string has not yet been established.

PDS771E *name* is not a valid subcommand; the following are valid:

The displayed subcommand is an undefined subcommand. A table of valid subcommand names for this data set type follows this header. For example, ATTRIBXX MEMBER can cause this message.

PDS771E *name* has been disabled for StarTool FDM StarWarp Option; the following are valid:

The displayed subcommand has been disabled for StarWarp Option customers.

StarWarp Option does not include several StarTool FDM data management subcommands such as COPY and FIXPDS. A table of valid subcommand names for StarWarp Option displays after this header. For example, FIXPDS RELEASE could cause this error message for a StarWarp Option user.

PDS771E *name* is only valid for partitioned data sets; the following are valid subcommands:

The displayed subcommand is only defined for partitioned data sets. A table of valid subcommand names for this data set type follows this header. For example, ATTRIB MMBER could cause this error message if the current data set is sequential or VSAM.

PDS771E *name* has been disabled at your site; the following are valid:

The displayed subcommand was disabled at your site during the installation process. A table of valid subcommand names displays after this header. Several StarTool FDMAsubcommands are optional and this subcommand was disabled during StarTool FDM installation.

For example, DSAT LIB.CNTL could cause this error message if the DSAT command was disabled for use by StarTool FDM.

Type CONTROL DEFAULTS to identify which subcommands are supported at your installation.

To use any of the disabled subcommands, contact technical support at your installation.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS772E A replacement string is required

A default replacement string cannot be used since a default string has not yet been established.

PDS773E Equal length strings are required for BLOCK and DUMP updates

The search and replacement strings are different lengths. This is allowed only for REPLACE with NUM, SNUM or NONUM formats.

PDS774E Replace terminated; character expansion failed

The replacement string could not fit on the current logical line and no additional updates will be made to this member.

Warning: This member may have been partially updated since each physical block is updated in-place to record changes before the next block is read.

PDS775E Equal length strings are required for REPLACE picture strings

If a picture string is used for a replacement string in the REPLACE subcommand, it must be the same length as the search string.

PDS780E *subname* DCB open error -- reallocate and try again

The output file could not be opened. Correct any problems with the allocation and try again.

Issued by the COMBINE, COMPDIR, CONTROL with DSN, COPY, CREATE, DUP, FINDMOD, OUTCOPY or SEPARATE subcommands.

PDS781E {*OUTCOPY/LOGCOPY*} DCB attributes conflict -- use sequential with RECFM=FB and LRECL=80

The attributes of the FILE(PDSOUT) and the session copy data set must be RECFM(F B) LRECL(80) with a blocksize that is a multiple of 80. It must be allocated to a sequential output data set or a member of a partitioned data set.

PDS782E COMBINE DCB attributes conflict -- use sequential with RECFM=FB

The attributes of the COMBINE file must be RECFM=FB and it must be allocated to a sequential data set or a member of a partitioned data set.

PDS783E SEPARATE DCB attributes conflict -- use partitioned with RECFM=FB

The attributes of the SEPARATE file must be RECFM=FB and it must be allocated to a partitioned data set.

PDS784E *COMBINE/LOGCOPY* member name is required for a PDS

The output file for the session copy data set and COMBINE must be written sequentially. Your output data set is a PDS or a PDSE but you did not indicate a member name. Reenter the command but add (*membername*) after the data set name.

PDS790E This data set is cataloged

The FIXPDS DSCB direct rename facility cannot continue with this operation because the target data set is cataloged. StarTool FDM will not rename an ENQUEUED, cataloged data set because of the danger of renaming an active system data set.

PDS800E No load module text was found for member

This member contains invalid load module data and it cannot be restored.

PDS801E End of member simulated -- remainder of track skipped

Because of a previously noted input error, the remainder of the track cannot be read. RESTORE begins processing with the following track as if it were the beginning of a new member.

PDS802E A main member named *memname* is already at this TTR

The identified main member resides at this location. RESTORE terminates after checking for other associated members.

PDS804E Restore abandoned

Because of a previously noted error condition, RESTORE cannot continue. Retry RESTORE with different operands.

PDS805E Invalid load module data

This member contains invalid load module data and it cannot be restored.

PDS806E Block length of *nn,nnn* exceeds the MAXBLK value

This member contains blocks larger than the MAXBLK value entered.

PDS807E Statement sequence error

SEPARATE requires a "./ ADD NAME=member" statement as its first control statement. Data until the next ./ ADD statement is skipped.

PDS808E SVC numbers stop at 255

SVC numbers range from zero through 255; there are no higher entries.

PDS809E ESR number is too high

An ESR entry above the maximum in this SVC was requested. An ESR SVC contains a binary number at offset four to indicate the highest valid entry.

PDS810E PEDIT only supports VSAM KSDS data sets

The PEDIT command only supports VSAM KSDS data sets at this time. In addition, if PEDIT is used in the PDS#CALL macro for the EDIT subcommand, PEDIT is automatically invoked for VSAM data sets; however, only VSAM KSDS data sets are allowed.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS811E Record length *n* is invalid

The indicated logical record length (0, 1, 2 or 3) is invalid for RECFM(V) data sets. This type of error indicates that your data set DCB has been altered. If this is the case, reset the data set DCB with the following subcommand:

```
FIXPDS RECFM(mm) LRECL(nn) BLKSIZE(pp)
```

where *mm*, *nn* and *pp* are replaced by the proper DCB attributes.

PDS812E Block length of *nn,nnn* exceeds the data set DCB BLKSIZE

The physical blocksize exceeds the BLKSIZE of the data set. This type of error indicates that your data set DCB has been altered. If this is the case, reset the data set DCB with the following subcommand:

```
FIXPDS RECFM(mm) LRECL(nn) BLKSIZE(pp)
```

where *mm*, *nn* and *pp* are replaced by the proper DCB attributes.

PDS813E Record length of *nn,nnn* exceeds the maximum DCB LRECL

The logical record length exceeds the LRECL of the data set. This type of error indicates that your data set DCB has been altered. If this is the case, reset the data set DCB with the following subcommand:

```
FIXPDS RECFM(mm) LRECL(nn) BLKSIZE(pp)
```

where *mm*, *nn* and *pp* are replaced by the proper DCB attributes.

PDS814E Block length of *nn,nnn* is not divisible by the DCB LRECL

The physical blocksize is not a multiple of the data set's LRECL. This type of error indicates that your data set DCB has been altered. If this is the case, reset the data set DCB with the following subcommand:

```
FIXPDS RECFM(mm) LRECL(nn) BLKSIZE(pp)
```

where *mm*, *nn* and *pp* are replaced by the proper DCB attributes.

PDS820E This member is an alias for *member1* but it points to *member2*

This member is an alias for main member *MEMBER1* (according to its TTR), but its directory entry indicates that it should be an alias of *MEMBER2*.

This is caused by renaming a main module with a utility that does not update the associated alias modules' directory entries correctly.

This type of error causes serious problems if the members are in your LPALIB (you may not be able to IPL). To correct this problem with StarTool FDM, issue the following subcommand:

```
RENAME member1 member1
```

where *member1* is the name of the main module identified above.

PDS821E RMODE entry does not correspond with member *memname*

The residence mode entry for this alias member does not match the residence mode entry of the identified main module.

Reinstall the main module and its aliases. The aliases for this member are probably unusable until this error is corrected.

To correct this problem with StarTool FDM, issue the following subcommands:

```
ATTRIB memname
```

where *memname* is the main member identified above.

```
ATTRIB member RMODE xx
```

where RMODE*xx* is the RMODE value displayed by the first ATTRIB.

PDS822E Main amode entry does not correspond with member *memname*

The addressing mode entry for this alias member does not match the addressing mode entry of the identified main module.

Reinstall the main module and its aliases. The aliases for this member are probably unusable until this error is corrected.

To correct this problem with StarTool FDM, issue the following subcommands:

```
ATTRIB memname
```

where *memname* is the main member identified above.

```
ATTRIB memname AMODExx
```

where AMODE*xx* is the AMODE value displayed by the first ATTRIB.

PDS823E RLD/CONTROL count does not correspond with member *member*

The RLD/CONTROL count for this alias member does not match the RLD/CONTROL count of the identified main module.

Reinstall the main module and its aliases. FETCH uses this count field to construct a channel program that will load the member.

If this error is not resolved before program FETCH uses this member, FETCH can operate in a degraded mode (see IBM message CSV300I).

To correct this problem with StarTool FDM, issue the following subcommand for the main module and each of its aliases: ATTRIB *member*x RLDFIX

PDS824E Duplicate member name -- ignored

This member name was encountered previously in the data set directory. Your data set has been damaged. It should be recovered in some fashion or it may suffice to delete one of the duplicate member names.

Chapter 6: Error Messages (PDS600E - PDS999E)

FIXPDS with ORDER or an interactive ZAP command may be useful in changing the actual member names to ascending order.

PDS825E Member name is out of sequence -- ignored

Member names higher in the collating sequence than this member name were encountered previously in the data set directory. Your data set has been damaged. It should be recovered in some fashion, or it may suffice to delete the out-of-sequence member name or the member name just before this one in the directory.

FIXPDS with ORDER or an interactive ZAP command may be useful in changing the actual member names to ascending order.

PDS826E The directory RLD/CONTROL count does not match the first RLD entry

The RLD/CONTROL count for this member does not match the number of RLD or control records following the first TEXT record.

FETCH uses this count field to construct a channel program that will load the member.

If this error is not resolved before FETCH uses this member, FETCH can operate in a degraded mode (see IBM message CSV300I).

To correct this problem with StarTool FDM, issue the following subcommand for the main module and each of its aliases: ATTRIB memberx RLDFIX

PDS827E *member1* is an alias for this member but it points to *member2*

MEMBER1 is actually an alias for this main member (according to its TTR), but its directory entry indicates that it should be an alias of MEMBER2.

This is caused by renaming a main module with some utility that does not update the associated alias modules' directory entries correctly.

This type of error causes serious problems if the members are in your LPALIB (you may not be able to IPL). To correct this problem with StarTool FDM, issue the following subcommand:

```
RENAME mmember mmember
```

where *mmember* is the name of the main member.

PDS828E GETMAIN for *nnnn* megabytes above the line failed

The OPEN of a linear data set or browse for a data set failed because an area to hold the pointers to the data records or the data records was not available.

If a VSAM data set occupies less than two megabytes or it is a Path (since Paths cannot have unique keys), StarTool FDM obtains storage for the data set itself. In other cases, StarTool FDM obtains storage for a pointer (RBA, RRN or key) to each record to support ISPF BRIF.

Your system did not let StarTool FDM obtain the required storage. To increase the amount of storage allowed above the 16 megabyte line, investigate IEFUSI.

PDS829E DASDVOL prevents PDSEAUTH updates to the VTOC

If a DASD VTOC is protected from updates using the DASDVOL generic resource, you cannot update that volume with FIXPDS keywords that update the FORMAT 1 DSCB directly such as SPACE(20), TRK/CYL/BLK or DSCB.

In a RACF environment, if a volume is protected with the DASDVOL resource, messages similar to the following display before the PDS829E message is issued:

```
ICH408I STR894 CL(DASDVOL)
ICH408I INSUFFICIENT ACCESS AUTHORITY
ICH408I FROM STR* (G)
ICH408I ACCESS INTENT(UPDATE) ACCESS ALLOWED(READ)
IEC150I 913-38, ...
```

If you need DASDVOL access so that you can update the DSCB records in this manner, forward the information in this explanation to your security administrators with supporting documentation including the actual messages received so that your access rules can be modified.

PDS830E Obtain error; DSCB not on volume

The data set name could not be found in the VTOC (Volume Table of Contents). This is either a StarTool FDM program error or the base name of a generation data group (GDG) was entered.

To use a GDG, enter the fully qualified name with a trailing GnnnnVmm. . You can also enter a DSNAME like GDG.NAME(0) or GDG.NAME(-1).

PDS831E Unable to open data set

The open for the data set failed.

PDS832E Dummy member add failed, RC=8

A dummy member, with name 9FIXPDS, was not added as expected to the data set directory.

PDS833E Dummy member delete failed, RC=8

A dummy member, with name 9FIXPDS, was not deleted as expected from the data set directory.

PDS834E Error in general fail service routine; R15=nn

The general FAIL system message routine (IKJEFF19) failed with the indicated return code. This routine is used to diagnose IKJPARS errors.

PDS835E Error in DAIRFAIL service routine; R15=nn

The DAIRFAIL system message routine (IKJEFF18) failed with the indicated return code.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS836E I/O error in directory, EXCP RC=12
I/O error in directory, BLDL RC=8
I/O error in directory, STOW RC=16, R0=hexvalue

The system directory management routines indicate that the directory for this data set contains one or more I/O errors.

This I/O error may be due to data set or equipment errors. Type a VERIFY subcommand for more information. Data set recovery will be required if this is a data set error.

If the message indicates EXCP, StarTool FDM noted the I/O error during a directory read. If the message indicates BLDL, the BLDL macro noted the error during a member search.

If the message indicates STOW, a member update operation was not successful. It received a return code 16 with the displayed reason code. STOW reason codes are as follows:

R0=00000001	A permanent I/O error was detected.
R0=00000002	A permanent I/O error occurred while writing the member EOF mark.
R0=00000004	An error occurred while writing data buffered in system buffers.
R0=00000737	The system found an I/O error while trying to read or write the VTOC.
R0=00000B37	The system was unable to update the VTOC.
R0=00000D37	Either no secondary space is available or a DADSM user exit error occurred. The error occurred when trying to write an EOF; all primary space was used.
R0=00000E37	Either no secondary space is available or a DADSM user exit error occurred.

PDS837E program environment is not APF authorized

A program invoked with the IKJEFTSR interface must be authorized. It must be marked AC(1) and it must reside in an authorized library (which cannot be concatenated to other non-authorized libraries).

Also, the program name must be present in the IKJT000 member of SYS1.PARMLIB and this member must have been activated with an IPL or the TSO PARMLIB command. Notify your systems programmer.

Normally, this message displays after IKJEFTSR issues the following message indicating that the SYS1.PARMLIB change is in effect for the program:

```
CSV019I REQUESTED MODULE program NOT ACCESSED, IS IN NON-APF LIBRARY.
```

PDS838E PDSEAUTH function code is not supported

A function was requested from PDSEAUTH that is not supported. Notify your systems programmer that PDSEAUTH may be back-level.

PDS839E PARTREL macro failed, RC=nn

PDSEAUTH issues a PARTREL macro to release space in PDSE data sets for a FIXPDS RELEASE function. The return code from PARTREL was non-zero indicating that the partial release failed. Return codes are:

- RC=02 Unable to find an extent in the VTOC.
- RC=04 Unable to find an extent in the VTOC.
- RC=08 Either the SYSZTIOT or SYSDSN ENQ failed, or an unrelated DEB indicates that another DCB is open to the data set.
- RC=12 Invalid parameter list.
- RC=16 Either a permanent I/O error occurred, CVAF provided an unexpected return code, an installation exit rejected the request or an I/O error occurred while the tracks were being erased.
- RC=20 DSN or DSN pointer is invalid.
- RC=24 Invalid UCB pointer.
- RC=28 Specified DSORG is not supported.
- RC=32 No room in the VTOC.
- RC=36 Invalid TIOT=NOENQ request; exclusive use of SYSDSN is needed.
- RC=40 An error occurred while SMS was processing the request.
- RC=44 CLOSE was the caller of partial release. IGGPRE00 (the preprocessing exit) rejected the partial release request.

Contact your systems programmer or SERENA for help.

PDS840E Invalid hexadecimal string length

FIND and REPLACE allow for a maximum of 64 hexadecimal digits for a search or replacement string.

PDS841E Invalid hexadecimal characters

Only numeric characters and the characters from A through F (in upper or lower case) can be used in hexadecimal strings.

PDS842E This string is too long

FIND and REPLACE allow for a maximum of 32 characters for a search or replacement string.

PDS843E Only disk data sets are supported

The data set to be allocated must exist on a physical or virtual disk.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS844E Syntax error: *errormessage*
{AMBIGUOUS KEYWORD}
{INVALID DELIMITER}
{INVALID PARAMETER DATA}
{PARAMETER IS TOO LONG}
{VALIDATION FAILED}
{POSITIONAL PARM MISSING}
{INVALID DSNAME LENGTH}
{INVALID DATA SET NAME}
{INVALID MEMBER NAME}
{INVALID MEMBER LENGTH}
{INVALID PASSWORD LENGTH}
{INVALID RANGE VALUE}

The subcommand entered is incorrect. It must be corrected before StarTool FDM can proceed with the subcommand.

To correct the error, StarTool FDM suspends subcommand processing and prompts you with an appropriate syntax assistance panel. Put the cursor at the beginning of the data in error. After determining the cause of the problem, fix the problem by overtyping the error on this panel. When you press the Enter key, StarTool FDM tries to interpret the subcommand again. If you press END, StarTool FDM discards the subcommand.

The following table shows actions you can take for each message.

Error text	Probable cause	Suggested action
INVALID KEYWORD	the indicated keyword is not defined	correct any misspelling
AMBIGUOUS KEYWORD	the abbreviation used is too short	add additional characters
INVALID DELIMITER	an invalid character was entered between parameters	correct any miskeyed data
INVALID PARAMETER DATA	this parameter cannot be interpreted	check the parameter for obvious problems
PARAMETER IS TOO LONG	too many characters were entered for this parameter	reduce the parameter's length
VALIDATION FAILED	a parse support routine rejected this parameter	check the parameter for obvious problems
POSITIONAL PARM MISSING	a required positional parameter was omitted	add the required parameter
INVALID DSNAME LENGTH	the data set name has more than 44 characters	correct the data set name
INVALID DATA SET NAME	the data set is incorrectly constructed	check the data set name for obvious problems

Error text	Probable cause	Suggested action
INVALID MEMBER NAME	the member name is incorrectly constructed	correct obvious errors
INVALID MEMBER LENGTH	member name has more than 8 characters	correct obvious errors
INVALID RANGE VALUE	first value exceeds the second one	change either value

PDS845E Syntax error; ignored due to END

The subcommand entered was discarded because of an END command. To correct a syntax error, overwrite corrections followed by pressing the Enter key.

PDS848E RENAME failed; this name is already present on this volume

This data set can not be renamed because another data set on this volume with this name is already present on this volume.

PDS849E Volume *volser* has an indexed VTOC

This data set cannot be renamed because this volume has an indexed VTOC. To rename this data set, unindex this volume, rename the data set and reindex the volume again.

PDS850E *memname* is being updated by *username*

This member is being modified by the named user or JOB. This member is currently owned by the indicated user or JOB and its status cannot be changed.

PDS851E This data set is being updated by *username*

This data set is being modified by the named user or JOB with an edit program. This data set is currently owned by the indicated user or JOB and its status cannot be changed.

PDS852E *memname* already exists

This member cannot be added to the data set since it is already in the data set.

PDS853E *memname* not found

This member is not in the data set; the requested function requires an existing member and it cannot be performed.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS854E *memname* is an invalid member name

This member name is invalid. Type member names in character or hexadecimal mode.

- Character member names can be from one to eight bytes long with no imbedded blanks, commas, parentheses, asterisks, colons, slashes, question marks or percent symbols.
- Hexadecimal member names can contain from one to sixteen hexadecimal digits delimited by ' and '. Note: x'd7c4e2c5' and PDSE are equivalent; x'333' and x'0333' are equivalent.
- Member names for services external to StarTool FDM such as EDIT, BROWSE, PRINT or COMPARE have more stringent requirements:
- The member name is from one to eight characters long.
- The first character of the name must be a alphabetic or national character.
- Any additional characters should be alphabetic, numerics or nationals.

PDS855E The data set directory is full and members cannot be added

The directory is full. If you are trying to save a member using an editor, save it in another data set before continuing.

This type of problem can be resolved in several ways:

- Clean up the data set directory by deleting obsolete members and make room for new member names.
- Split the data set into two (or more) data sets.
- Reallocate the data set (with a larger directory) and copy all old members to the replacement.
- Expand the directory with FIXPDS. For example, type FIXPDS EXPAND(30) to add 30 directory blocks.

PDS856E STOW error, R15=*nn*, R0=*hexvalue*

An update to a member failed with the indicated return code and reason code. STOW return codes and reason codes are:

- | | |
|---------------------|---|
| R15=20, R0=00000000 | The data control block is not open, it is open for input or a DEB error occurred. |
| R15=20, R0=00000004 | The initialize function was specified for a PDSE with DISP=SHR. |
| R15=24, R0=00000000 | Insufficient virtual storage was available to perform the STOW function. |
| R15=28, R0=00000000 | The DCB defined a PDS; initialize only supports PDSE data sets. |
| R15=28, R0=00000004 | STOW add or replace was attempted for a member of a PDSE with load modules (Program Objects). |

- R15=36, R0=00000000 For a PDSE, the alias has an invalid TTR.
- R15=40, R0=00000000 For a PDSE, user-supplied TTRs are in the user field of the directory entry.
- R15=48, R0=00000004 For a PDSE, the add failed because you cannot add a primary member name while the data set is open for update.
- R15=48, R0=00000008 For a PDSE, the replace failed because you cannot replace a primary member name while the data set is open for update and the specified member name does not exist.
- R15=48, R0=0000000C For a PDSE, the replace failed because you cannot replace an alias name if it is the same name as the primary member.
- R15=48, R0=00000010 For a PDSE, the add or replace failed when attempting to add or replace an alias, but the member identified by the TTR did not exist.
- R15=48, R0=00000014 For a PDSE, the replace failed when attempting to replace a primary member name while the data set is open for update and the member name identified an existing alias.
- R15=48, R0=00000018 For a PDSE, the replace failed when attempting to replace a primary member name while the data set is open for update, but the input TTR has not been defined for that member.
- R15=52, R0=00000000 For a PDSE, one or more members were placed in a pending delete state. The space taken by those modules is not immediately available for reuse.

PDS857E Binder error in service: r15=nn, rs=hexvalue

An unexpected return code and reason code were returned by a binder interface call. Programs request binder services through an interactive session called a dialog. An area of working storage used to create or operate on a program module is called a workmod.

The binder interface service name in this message is:

ADDA	Add an alias
ALIGN	Align text in a workmod
ALTERW	Alter a workmod
BINDW	Bind a workmod
CREATEW	Create a workmod
DELETEW	Delete a workmod
ENDD	End dialog
GETD	Get data
GETE	Get ESD data
GETN	Get CSECT names
INCLUDE	Include a module

Chapter 6: Error Messages (PDS600E - PDS999E)

INSERTS	Insert a section
LOADW	Load a workmod
ORDERS	Order section
RESETW	Reset a workmod
SAVEW	Save a workmod
SETL	Set library
SETO	Set options
STARTD	Start a dialog
STARTS	Start a segment

The return codes set by the binder are interpreted as follows:

RC=00	Successful completion of the operation
RC=04	Successful completion, but an unusual condition existed. See the reason code explanation.
RC=08	Error condition detected but corrective action was taken by the binder.
RC=12	Severe error encountered. The requested operation could not be completed but the dialog continues.
RC=16	Terminating error. The binder dialog could not be continued because the integrity of binder data could not be assured.

Several return code and reason codes are common to several services:

R15=12, R0=83000001	Invalid workmod token. Request rejected.
R15=12, R0=83000002	Invalid dialog token. Request rejected.
R15=12, R0=83000003	Binder invoked from within user exit. Request rejected.
R15=12, R0=83000004	Invalid function code specified. Request rejected.
R15=12, R0=83000005	Invalid parameter. Request rejected.
R15=12, R0=83000008	Wrong number of arguments specified. Request rejected.
R15=12, R0=83000009	Parameter list contains invalid addresses or refers to storage that is not accessible by the binder. Request rejected.
R15=12, R0=83000010	Parameter list is not accessible by the binder. Request rejected.
R15=16, R0=83000050	Storage limit established by workspace option exceeded. Dialog terminated.
R15=16, R0=83000051	Insufficient storage available. Dialog terminated.
R15=16, R0=83000060	Operating system not at correct DFSMS/MVS level. No dialog established.
R15=16, R0=830000FF	IEWBIND module could not be loaded. No dialog established.

Serena™ StarTool® FDM 7.4 Messages Guide

R15=16, R0=83EE2900 Binder logic error. Dialog terminated.

R15=16, R0=83FFaaa0 Binder ABEND occurred. Dialog terminated. 'aaa' is the system ABEND code.

If you get any of the above return code and reason code combinations, it is probably because of a StarTool FDM or binder error. Call SERENA for assistance.

Return codes and service codes that are unique to a dialog service are:

ADDA	Add an alias	
	R15=04, R0=83000711	Alias name has already been assigned. This request replaces the previous request for this alias name.
	R15=12, RS=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000006	Section is being built and only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete.
ALIGN	Align text in a workmod	
	R15=04, R0=83000710	Duplicate alignment request. A request to page align this section has already been processed. The request is ignored.
	R15=12, RS=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000006	Section is being built and only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete.
	R15=12, RS=83000104	Function not allowed for INTENT=ACCESS. Request rejected.
ALTERW	Alter a workmod	
	R15=04, R0=83000702	OLDNAME was not found. For an immediate-mode change or replace request, no ESD in the module contained the specified name.
	R15=04, RS=83000706	Duplicate name. For an immediate mode request, the replacement name already exists as an external symbol in the target workmod. The old name or section is deleted if necessary, and the requested change is made.
	R15=08, RS=83000550	A section for which an expand request was made is not in the target workmod. The workmod is unchanged.
	R15=08, RS=83000551	The name on an expand request matched a symbol in the workmod that was not a section name. The workmod is unchanged.

Chapter 6: Error Messages (PDS600E - PDS999E)

	R15=08, RS=83000552	The name on an expand request is blank. The workmod is unchanged.
	R15=08, RS=83000553	Expand request for more than 1 gigabyte. The workmod is unchanged.
	R15=12, RS=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000006	Section is being built and only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete.
	R15=12, RS=83000104	Function not allowed for INTENT=ACCESS. Rejected.
BINDW	Bind a workmod	
	R15=04, R0=83000300	Unresolved external references exist. NCAL, NOCALL or NEVERCALL specified. Workmod has been bound.
	R15=04, RS=83000308	Unresolved external references exist. A member matching the unresolved reference was included during autocall, but did not contain an entry label of the same name. Workmod has been bound.
	R15=04, RS=83000314	At least one valid exclusive call was found in a module bound in overlay format. The XCAL option was specified. Workmod has been bound.
	R15=04, RS=83000316	The overlay option was specified, but there is only one segment. Workmod has been bound, but not in overlay format.
	R15=08, RS=83000301	Unresolved external references exist. The references symbols could not be resolved from the autocall library. Workmod has been bound.
	R15=08, RS=83000302	Unresolved external references exist. No autocall library specified. Workmod has been bound.
	R15=08, RS=83000303	Unresolved external references exist. The members were located in the autocall library, but an error occurred while attempting to include one or more of the members. References to the members that could not be included remain unresolved. Workmod has been bound.
	R15=08, RS=83000304	The name in an insert request was not resolved, or was not resolved to a section name. Workmod has been bound.

R15=08, RS=83000305	An ORDER request was processed for a symbol that is not a label in the ESD. Ordering of that symbol has been ignored. Workmod has been bound.
R15=08, RS=83000307	The module was bound successfully, but the module map or cross reference table could not be produced.
R15=08, RS=83000309	An ALIGN request was processed for a symbol that is not a label in the ESD. Alignment of that symbol is ignored. Workmod has been bound.
R15=08, RS=83000310	One or more alteration requests were pending upon entry to autocall. The alterations were ignored. Workmod has been bound.
R15=08, RS=83000311	Workmod has more than one segment, but OVLY was not specified. The overlay structure was ignored. Workmod has been bound.
R15=08, RS=83000313	A V-type address constant of less than four bytes that references a segment other than the resident segment has been found in an overlay segment. Workmod has been bound.
R15=08, RS=83000315	At least one invalid exclusive call was found in a module bound in overlay format. Workmod has been bound but the adcon for invalid call will not be properly relocated.
R15=08, RS=83000317	At least one valid exclusive call was found in a module bound in overlay format. Workmod has been bound.
R15=08, RS=83000318	There are no calls or branches from the root segment of an overlay module to a segment lower in the tree structure. Other segments can not be loaded. Workmod has been bound.
R15=08, RS=83000501	One or more control statements were included during autocall processing. The statements were ignored.
R15=12, RS=83000001	Invalid workmod token. Request rejected.
R15=12, RS=83000006	Section is being built. Only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.
R15=12, RS=83000104	INTENT=ACCESS specified for workmod. Module could not be rebound. Request rejected.

Chapter 6: Error Messages (PDS600E - PDS999E)

	R15=12, RS=83000312	There are no sections or only zero-length sections in the root segment of an overlay module and the module probably can not be executed. Workmod has been bound.
	R15=12, RS=83000320	An autocal library is unusable. Either it could not be opened or the directory could not be processed. Autocal processing continues without using this library.
	R15=12, RS=83000415	Module contains no ESD data and could not be bound.
	R15=12, RS=83000719	Module contained no text after being bound and is probably not executable. Processing continues.
CREATEW	Create a workmod	
	R15=12, R0=83000002	Invalid dialog token. Request rejected.
DELETEW	Delete a workmod	
	R15=04, R0=83000701	The workmod was in an altered state but PROTECT=NO was specified. The workmod is deleted.
	R15=12, RS=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000707	The workmod was in an altered state and PROTECT=YES was specified or defaulted. The delete request is rejected.
ENDD	End dialog	
	R15=04, R0=83000700	One or more workmods were in an active state but PROTECT=NO was specified. The dialog is terminated.
	R15=08, RS=83000704	An unexpected condition occurred while ending the dialog. The dialog was terminated but some resources may not have been released.
	R15=12, RS=83000708	One or more workmods were in an active state and PROTECT=YES was specified or defaulted. The dialog is not terminated.
	R15=12, RS=83000002	Invalid dialog token. Request rejected.
GETD	Get data	
	R15=04, R0=83000800	Normal completion. Some data may have been returned in the buffer and an end of data condition was encountered.
	R15=08, RS=83000801	The requested item did not exist or was empty. No data has been returned.
	R15=12, RS=83000001	Invalid workmod token. Request rejected.

	R15=12, RS=83000006	Section is being built. Only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.
	R15=12, RS=83000102	Workmod was in an unbound state. GETD request could not be processed.
GETE	Get ESD data	
	R15=04, R0=83000800	Normal completion. Some data may have been returned in the buffer and an end of data condition was encountered.
	R15=08, RS=83000705	The requested symbol could not be located in the workmod. No data has been returned.
	R15=08, RS=83000801	The requested item did not exist or was empty or no record met the specified criteria. No data has been returned.
	R15=08, RS=83000812	The specified offset was negative or beyond the end of the designated item or module. No data has been returned.
	R15=12, RS=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000006	Section is being built. Only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.
	R15=12, RS=83000101	OFFSET and SYMBOL have both been specified. Request rejected.
	R15=12, RS=83000102	Workmod was in an unbound state. GETE request could not be processed.
GETN	Get CSECT names	
	R15=04, R0=83000800	Normal completion. Some data may have been returned in the buffer and an end of data condition was encountered.
	R15=08, RS=83000801	No section names exist. No data was returned.
	R15=08, RS=83000810	Cursor is negative or beyond the end of the end of the specified item. No data has been returned.
	R15=12, RS=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000006	Section is being built. Only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.

Chapter 6: Error Messages (PDS600E - PDS999E)

R15=12, RS=83000102	Workmod was in an unbound state. GETN request could not be processed.
INCLUDE	Include a module
R15=04, R0=83000515	Unsupported control statement encountered in included file. File was included successfully.
R15=04, RS=83000525	An unusual condition was encountered while processing a REPLACE or CHANGE statement.
R15=04, RS=83000526	An unusual condition was encountered in an input module while converting it into workmod format. For example, this error may be caused by a two-byte relocatable adcon.
R15=08, RS=83000502	One or more editing requests (delete, change or replace) failed during inclusion of the module. The module was included successfully but some of the requested changes were not made.
R15=08, RS=83000504	The module was successfully included but the ALIASES or ATTRIB option could not be honored because the directory was not accessible.
R15=08, RS=83000505	The module was marked "not editable" and has been deleted.
R15=08, RS=83000507	A format error has been encountered in a module being included. The module was not added to the target workmod.
R15=08, RS=83000511	A control statement in an included file attempted to include the file containing the statement or included another file that included the original file. The recursive include has been rejected.
R15=08, RS=83000516	A format error has been encountered in one or more control statements being included. The erroneous statements have been ignored.
R15=08, RS=83000517	A NAME control statement has been found but no target (MODLIB) has been specified. The statement was ignored.
R15=08, RS=83000518	A NAME control statement was encountered in a secondary input file. The statement was ignored.

R15=08, RS=83000519	Errors (invalid data) were found in a module being brought in by an INCLUDE control statement. The module was not included.
R15=08, RS=83000520	The data set or library member specified by an INCLUDE control statement could not be found and it was not included.
R15=08, RS=83000521	An I/O error occurred while trying to read an input data set (or directory) specified on an INCLUDE control statement and it was not included.
R15=08, RS=83000522	The input data set specified on an INCLUDE control statement could not be opened. The data set or member was not included.
R15=12, RS=83000001	Invalid workmod token. Request rejected.
R15=12, RS=83000006	Section is being built. Only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.
R15=12, RS=83000101	Not all parameters required for the specified INTYPE were provided. Request rejected.
R15=12, RS=83000103	INTENT=BIND was specified but the INTYPE was not DDNAME. Request rejected.
R15=12, RS=83000500	The INCLUDE call has attempted to include a second module with a processing intent of ACCESS. The request has been rejected.
R15=12, RS=83000503	An I/O error while trying to read the input data set or directory. The input is not usable.
R15=12, RS=83000506	An attempt has been made to include an object module specified with ACCESS intent. Request rejected.
R15=12, RS=83000509	An attempt has been made to include a file containing control statements but the workmod specified INTENT=ACCESS. Request rejected.
R15=12, RS=83000510	Error were encountered in the included module. The module is rejected.
R15=12, RS=83000512	The designated source for the current INCLUDE contained more than one module but the target workmod specified INTENT=ACCESS. Request rejected.
R15=12, RS=83000513	The file could not be opened. Request rejected.

Chapter 6: Error Messages (PDS600E - PDS999E)

	R15=12, RS=83000514	The requested member could not be found in the library or the library could not be found. Request rejected.
	R15=12, RS=83000523	For intent access, the requested module contained a format error and has not been placed in a workmod. Request rejected.
INSERTS	Insert a section	
	R15=04, R0=83000711	An insert was already processed for this section and has been replaced.
	R15=12, RS=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000006	Section is being built and only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.
	R15=12, RS=83000104	INSERT is not valid against a workmod specified with INTENT=ACCESS. Request rejected.
LOADW	Load a workmod	
	R15=04, R0=83000603	The AMODE or RMODE of one or more input ESD records is incompatible with the AMODE or RMODE of the primary entry point.
	R15=04, RS=83000605	No entry name has been provided either by the user or from any object module processed. The entry point will default to the first text byte.
	R15=04, RS=83000655	The buffer provided room only for one extent but a second extent exists for the loaded module. The module was loaded successfully.
	R15=04, RS=83000657	The module was loaded with AMODE(24) but one or more references in the module were resolved to modules in the Extended LPA. The load was successful.
	R15=08, RS=83000306	The module was loaded but the binder could not produce the load summary report.
	R15=08, RS=83000650	The entry name specified was not defined in the loaded module. The entry point will default to the first text byte.
	R15=12, RS=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000006	Section is being built and only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.

R15=12, RS=83000101	Identify was set to NO but no extent list buffer was provided. Request rejected.
R15=12, RS=83000415	The module to be loaded contains no text. Execution is impossible.
R15=12, RS=83000651	The IDENTIFY for the loaded module failed probably due to the existence of another module of the same name. The module was loaded successfully but can not be accessed by system-assisted linkage.
R15=12, RS=83000652	Sufficient storage was not available to load the module; it could not be loaded.
R15=12, RS=83000653	An error of severity greater than that allowed by the current LET value was encountered. The module could not be loaded.
R15=12, RS=83000656	The module was loaded in overlay format and can not be loaded. Request rejected.
ORDERS	Order section
R15=04, R0=83000711	A previous order request for this section was received and has been replaced.
R15=12, RS=83000001	Invalid workmod token. Request rejected.
R15=12, RS=83000006	Section is being built and only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.
R15=12, RS=83000104	An ORDERS request is invalid against a workmod specified with INTENT=ACCESS. Request rejected.
RESETW	Reset a workmod
R15=04, R0=83000703	The workmod was in altered state but PROTECT=NO was specified. The workmod was reset as requested.
R15=12, RS=83000001	Invalid workmod token. Request rejected.
R15=12, RS=83000009	The workmod was in altered state but PROTECT=YES was specified or defaulted. RESETW request rejected.
SAVEW	Save a workmod
R15=04, R0=83000400	The module has been saved as requested but has been marked "not-editable".
R15=04, RS=83000411	A module saved as a program object had the SCTR attribute specified. The SCTR attribute was ignored.

Chapter 6: Error Messages (PDS600E - PDS999E)

R15=04, RS=83000420	A module saved as a load module contained incompatible data. Some auxiliary information may have been lost (for example, IDRU records may have been lost).
R15=04, RS=83000603	The AMODE or RMODE of one or more input ESD records is incompatible with the AMODE or RMODE of the primary entry point.
R15=04, RS=83000605	No entry name has been provide either by the user or from any object module processed. The entry point will default to the first text byte.
R15=08, RS=83000306	The module was saved successfully but the save operation summary could not be printed.
R15=08, RS=83000401	One or more aliases could not be added to the target directory. Module was saved as requested, however.
R15=08, RS=83000402	The entry name specified is not defined in the module being saved. The entry point will default to the first text byte.
R15=08, RS=83000410	An error was encountered while saving a workmod. The module was saved but may not be executable.
R15=12, RS=83000001	Invalid workmod token. Request rejected.
R15=12, RS=83000006	Section is being built and only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.
R15=12, RS=83000404	The module exceeded the limitations for load modules and could not be saved in the specified PDS library.
R15=12, RS=83000405	A permanent write error was encountered while attempting to write the load module. The save operation terminated prematurely and the module is unusable.
R15=12, RS=83000406	A permanent read error was encountered while attempting to write the load module. The save operation terminated prematurely and the module is unusable.
R15=12, RS=83000407	No valid member name has been provided. Request rejected.
R15=12, RS=83000408	The workmod has been marked not executable and can not replace an executable version. Request rejected.

	R15=12, RS=83000409	A member of the same name already exists in the target library but the REPLACE option was not specified. The module was not saved.
	R15=12, RS=83000413	One or more external references in the workmod were bound to modules in the Link Pack Area. The module can not be saved.
	R15=12, RS=83000415	The module is empty (contains no non-empty sections) and will not be saved unless LET=12.
	R15=12, RS=83000416	No DDNAME has been specified for the target library. Request rejected.
	R15=12, RS=83000417	The target data set is not a library. Request rejected.
	R15=12, RS=83000418	The target data set is not a load library. Request rejected.
	R15=12, RS=83000421	Text longer than 1 gigabyte in program object. Module not saved.
	R15=12, RS=83000600	The target library could not be found.
	R15=12, RS=83000601	The binder could not successfully close the output library.
	R15=12, RS=83000602	The binder could not successfully open the output library.
SETL	Set library	
	R15=04, R0=83000711	This request replaced a previous SETLIB request for the same symbol.
	R15=12, RS=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000006	Section is being built and only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.
	R15=12, RS=83000101	The LIBOPT and CALLIB parameters were inconsistent. Either LIBOPT=C and CALLIB was omitted or LIBOPT=N or E and CALLIB was present. Request rejected.
	R15=12, RS=83000104	The SETL function is invalid against a workmod specified with INTENT=ACCESS. Request rejected.
SETO	Set options	
	R15=12, R0=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000002	Invalid dialog token. Request rejected.

Chapter 6: Error Messages (PDS600E - PDS999E)

	R15=12, RS=83000006	Section is being built and only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.
	R15=12, RS=83000100	Neither dialog token nor workmod were specified. Request rejected.
	R15=12, RS=83000106	The option specified is invalid for a workmod specified with INTENT=ACCESS. Request rejected.
	R15=12, RS=83000107	Invalid option keyword specified. Request rejected.
	R15=12, RS=83000108	The option value is invalid for the specified keyword. Request rejected.
STARTD	Start a dialog	
	R15=04, R0=83000204	The binder was unable to open the trace data set during initialization. Processing continues without trace.
	R15=08, RS=83000200	The binder was unable to open the PRINT data set during initialization. Processing continues without PRINT.
	R15=08, RS=83000201	One or more invalid options were passed on STARTD. These options were not set but processing continues.
	R15=08, RS=83000203	The binder was unable to open the TERM data set during initialization. Processing continues without TERM.
	R15=08, RS=83000205	The current time was not available from the operating system. Time and date information in printed listings and IDR records will be incorrect.
STARTS	Start a segment	
	R15=12, R0=83000001	Invalid workmod token. Request rejected.
	R15=12, RS=83000006	Section is being built and only STARTD, ENDD, DELETEW, CREATEW and RESETW are allowed until the section is complete. Request rejected.
	R15=12, RS=83000104	The STARTS function is not valid against a workmod specified for INTENT=ACCESS. Request rejected.

- R15=12, RS=83000712 The maximum of 4 regions will be exceeded.
Request rejected.
- R15=12, RS=83000713 The maximum of 255 segments will be
exceeded. Request rejected.

PDS858E No default member has been established

A command that refers to the current member group (such as MEMBERS *) can only be entered after a default member name or member group is established. To establish a default member name or member group, use any of the following commands:

MEMBERS abc	member ABC
MEMBERS (abc,xyz)	members ABC and XYZ
MEMBERS :	all members -- X'00' through X'FF'
MEMBERS dd:	members from DD... through X'FF'
MEMBERS =	members from the MEMLIST table
MEMBERS :bb	members from X'00' through BB
MEMBERS aa:bb	members between AA... and BB
MEMBERS (abc,d:)	member ABC and those from D through X'FF'
MEMBERS aa/	member names containing AA anywhere
MEMBERS /bb	member names containing BB anywhere
MEMBERS aa/bb	member names containing AA and BB
MEMBERS a?a/bb	member names containing A.A and BB
MEMBERS (aa/,bb/)	member names containing AA or BB
MEMBERS aa*	members with names AA
MEMBERS *bb	members with names containing BB anywhere
MEMBERS aa?	members with names AA (three character member names)
MEMBERS ?bb	members with names .BB (three character member names)
MEMBERS aa*bb	members with names AA and BB elsewhere
MEMBERS a?a*bb	members with names A.A and BB elsewhere
MEMBERS (aa*,bb/)	members with names AA or with BB anywhere

After you enter a subcommand, use * to refer to the current member group. You can determine if a member group is current by examining the normal StarTool FDM prompt message (PDS300A). If the MEM= is followed by a blank, no default member group has been established.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS859E External command *name* is not installed

The named TSO command is required to support a StarTool FDM subcommand but it could not be found in the LINKLIST, in your STEPLIB data sets or in the LPALIB. Ensure that the required TSO command is available from one of the above sources before trying this subcommand again.

Several StarTool FDM subcommands are optional. This subcommand was not disabled during installation and the supporting external TSO command is not available in your TSO session.

For installations that use CA-ACF2, this message can be issued if a program being executed by StarTool FDM with IKJEFTSR (such as PDSEAUTH or IDCAMS) are not in the CA-ACF2 command limiting list. Refer to *PDSEAUTH in the StarTool FDM Installation Guide* for more details.

PDS860E *memname* is an alias but no main member exists

This alias member, known as an orphan, has no associated main member.

This error is caused by not linking a main module and all of its aliases. Reinstall the main module and its aliases.

To correct this problem with StarTool FDM, issue the following subcommands for each identified orphan member:

```
DELETE memberz
```

where *memberz* is the orphan member.

```
ALIAS memberx memberz
```

where *memberx* is the correct main member.

PDS861E The alias directory entry notes the main member name as *memname*

Displays the name of the main member for this alias member as noted by its directory entry.

PDS862E Error in GQSCAN data

Indicates that ENQUEUE check parameters are incorrect.

PDS863E This member is an alias for itself

The main name for this alias entry is the same as the main name; it points to itself. If this module is loaded, a CSV023I error message is issued to indicate the definition error; the load of the module will fail.

To correct this problem with StarTool FDM, issue a RENAME subcommand to change the member's name.

PDS864E *memname* is an apparent alias for this member

This member and the identified member both have the same TTR address but neither has its alias bit set. These members are called apparent aliases and the actual owner of the member data cannot be determined by StarTool FDM.

A cause of this type of problem is an open/close/EOV situation (OZ44857 -- also documented in I100587) in which opening a partitioned data set causes the FORMAT1 DSCB to be rewritten. If this occurs while the data set is open for update or output, then the DS1LSTAR (last TTR pointer) can be invalidated.

Normally, this situation only occurs on the first access of each day. Some MVS system modifications cause the DSCB to be updated more often and increase the exposure for duplicate TTR's and overlaid members.

If the data set is copied or compressed, IEBCOPY hides this error by creating two identical members during the copy. To correct this problem with StarTool FDM, determine which apparent alias member name should correspond to the member data and issue the following subcommand:

```
DELETE memberx
```

where *memberx* is the non-corresponding member name)

PDS865E The IEBCOPY output can not be opened

A compress or copy was performed but a summary of IEBCOPY's messages cannot be provided since the message data set cannot be opened.

PDS866E PDSCOMPD does not support the SuperEdit option

The AUTH subcommand can only enable the SUPEREDIT option with a current level of PDSCOMPD. This version of PDSCOMPD is from an earlier level of StarTool FDM. Retry this subcommand with a current level of PDSCOMPD if you want to test the SUPEREDIT option.

PDS867E ISPF current member size (nnn) is mismatched with actual size for *memname*

The ISPF statistics for SIZE of this member do not agree with the number or actual members in this member. This message is not issued for ISPF packed members. To correct this, use the ATTRIB subcommand with the RESIZE keyword.

PDS868E USERID can not be changed for JOBTRAC data sets

Any data set with a name like "*anything*.JOBTRAC.TRAC*anything*" is considered a CA-JOBTRAC data set and changes of ISPF USERID is not permitted because this does not permit JOBTRAC to control individual members of the data set.

PDS869E BLOCK or DUMP formats do not support AND, OR COLS or FORMAT

The LIST, FIND and REPLACE subcommands only support AND, OR, COLS and FORMAT for members when formats NUM, NONUM or SNUM is in effect.

Chapter 6: Error Messages (PDS600E - PDS999E)

Therefore, for VSAM data sets or load members, these keywords cannot be used since only formats DUMP, LDUMP, BLOCK or LBLOCK are supported.

PDS870E PDS directories must be contained in one extent

The directory of a partitioned data set must be totally contained in the first extent of the data set.

From VERIFY, it indicates that your data set was allocated with a invalid directory. Do not use the data set since it can fail in program load or when used by IEBCOPY.

From FIXPDS, it indicates that your data set requires more than its first extent to contain the expanded (or reset) directory. This is not permitted since it creates an invalid data set directory.

PDS871E A TTR for this member was not found

Because of an error condition, a record pointed by this member's directory entry could not be found in this load module.

This message may be due to data set or equipment errors. A VERIFY subcommand may provide more information.

If this error occurs in FIXPDS, the subcommand is terminated before changing the member in error. Any previously moved members and their associated aliases are fully updated, however.

If this problem is due to data set errors, the data set may be damaged and should be recovered.

PDS872E This member is after the data set end-of-file

This member's data follows the end of data set marker (DS1LSTAR) for this data set. To ensure that this diagnostic message is valid, StarTool FDM reopens the data set from the input routine in case another user saved into the data set. If the DS1LSTAR pointer is still less than this member's start address, this message is issued.

Indicates that your data set contains one or more invalid TTR pointers and that the data set is damaged. The data set should be recovered.

PDS873E TTR is beyond the used portion of the data set

A TTR pointer in this member's directory has a value that exceeds the end of data marker (DS1LSTAR) for the data set.

This error indicates that your data set contains one or more invalid TTR pointers and that the data set has been damaged. The data set should be recovered.

PDS874E TSO command name is invalid

TSO SCAN service indicates that this TSO command name is invalid. Valid TSO command names follow these rules:

- The TSO command name should be from one to eight bytes long.
- The first character of the TSO command name must be an alphabetic or national character.
- Any additional characters should be alphabetic, numerics or nationals.

PDS875E This data set has no directory blocks

This is a null data set . It contains no tracks and consequently, no directory blocks and no members.

When the data set takes an extent, it receives actual disk tracks and directory blocks.

PDS876E A directory record has an incorrect length (not 256 bytes)

This data set has an invalid directory block. Directory blocks should be 256 characters long and each block should contain an eight-byte key.

This error indicates that your data set was written over. The data set should be recovered.

PDS877E Invalid subcommand name

TSO SCAN service indicates that this subcommand name is invalid. Valid subcommand names follow these rules:

- The subcommand name should be from one to eight bytes long.
- The first character of the subcommand name must be an alphabetic or national character.
- Any additional characters should be alphabetic, numeric or national characters.

PDS880E Residence mode ANY and addressing mode xxx are incompatible

Residence mode ANY and an addressing mode of either 24 or ANY are incompatible. This is an invalid combination of linkage editor attributes.

PDS881E Reentrant attribute conflicts with not reusable

A reentrant attribute is incompatible with a not reusable attribute. This is an invalid combination of linkage editor attributes.

PDS882E Test attribute conflicts with not edit

A test attribute is incompatible with a not edit attribute. This is an invalid combination of linkage editor attributes.

PDS883E Reusable attribute conflicts with scatter

A reusable attribute is incompatible with a scatter load attribute. This is an invalid combination of linkage editor attributes.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS884E Overlay attribute conflicts with *xxxx*

The overlay attribute and any of the following attributes are incompatible:

A31	AMODE 31
AANY	AMODE ANY
RENT	reentrant
REUS	reusable
SCTR	scatter
RANY	RMODE ANY

PDS885E More than one output member would be named *memname*

For a COMPDIR, COPY, DUP or REPRO operation with the AS or TO keyword, multiple members can map to the same output member name.

For example, if the member names A03BY, BONBY and CONCY are input and AS(ZZZ) is in effect, only the output member names ZZZBY and ZZZCY result.

PDS891E VTOC read error, VOL=*volnam*, TRACKS=*nnnn*, ECB=*xx*

StarTool FDM inputs VTOC information for the VMAP and LISTF functions by reading an entire cylinder at a time by chaining several read multiple operations together. Each read multiple operation reads an entire disk track.

StarTool FDM normally reads the entire VTOC regardless of the value in the DS4HPCHR field (DS4HPCHR indicates the address of the last Format 1 DSCB but it is not maintained in an Indexed VTOC environment).

Because StarTool FDM reads the entire VTOC, it is sensitive to data errors anywhere in the VTOC. The PDS991E message is issued after a read of a VTOC track fails. The number of tracks reported can be used to calculate the track with the problem data.

For example, if you get the following message:

```
PDS891E VTOC read error; VOL=FOX804; TRACKS= 21; ECB=41
```

the first 21 tracks of the VTOC were read successfully before a data error was encountered. Some types of read multiple errors are transient in nature. Retry the VMAP or LISTF operation to see if this error is repeatable.

Data errors in a VTOC can be cleaned up with a ICKDSF INSPECT function. To perform this operation, determine the CCHH address of the VTOC for the volume with the StarTool FDM LISTV function.

Assuming an error on volume FOX804, type LISTV FOX804 from the LOG. After obtaining the display for the volume, press the RIGHT PF key to display an alternate format like the following:

```
VOLUME DATA/MSG DEV DEV - MOUNT - STORAGE USE -----VTOC----...
NAME ----- ADDR TYPE ATTR STAT -GROUP- CNT --CCHH-- SIZE...
FOX804          3AC 3390M3 PRI PRES          31 03720005 55...
```

Since a 3390M3 device contains 15 tracks in a cylinder, the CCHH address of the track containing the data error is 0373000B (or hexadecimal 0372+0001 and hexadecimal 0005+0006). You can execute ICKDSF to inspect and correct data on several tracks near this error by submitting a job similar to the following:

```
//FIXTRK EXEC PGM=ICKDSF
//SYSPRINT DD SYSOUT=*
//VOLUME DD DISP=SHR, VOL=SER=FOX804, UNIT=3380
//SYSIN DD *
INSPECT DDNAME(VOLUME) NOSKIP CYLRANGE(X'0373',X'0373') -
HEADRANGE=(10,12) CHECK(2) ASSIGN PRESERVE NOVERIFY
```

Notes on the above INSPECT statement for ICKDSF:

DDNAME	points to the DDNAME allocated in the JCL (//VOLUME).
NOSKIP	performs primary surface checking. SKIP also performs skip displacement checking (use SKIP if you want a more extensive test).
CYLRANGE	cylinder range to check from your calculations.
HEADRANGE	head range to check from your calculations.
CHECK	number of repeated track checks desired.
ASSIGN	flags specific tracks. ICKDSF can also assign new alternate tracks.
PRESERVE	saves data from the inspected track and restores it.
NOVERIFY	bypasses verification of the volume name.

PDS892E Read multiple failed at TTR=*ttraddr*; CCHHR=*cc.hh.rr*

StarTool FDM has an input mode called "read multiple" that can read an entire track of disk data at a time. A read multiple can fail for any of several reasons:

I/O error	an I/O error is on the current track
Invalid address	the disk TTR address provided is invalid
Skip displacement	bad spots on the track are not bypassed
Track overrun	too much data is recorded on a physical track

Chapter 6: Error Messages (PDS600E - PDS999E)

After a read multiple input fails StarTool FDM uses its alternate double buffering input mode for the remainder of the subcommand. In many cases, double buffering also fails during the read of data on this track due to I/O or other errors. With the next subcommand, read multiple is attempted again. If many subcommands issue failure messages for read multiple, you may want to change the mode for input buffering to double with the CONTROL DOUBLE subcommand.

Consider the following information and procedures for correcting read multiple failures because read multiple is a far more effective input technique. Determine what members reside on a data set track with read multiple errors. For example, with the following message:

```
PDS892E Read multiple failed at TTR=044B01; CCHHR=04FB.0003.01
```

Type a StarTool FDM subcommand like the following to build a list of members that start on the track containing the error:

```
IF : TTR(44B01:44BFF) THEN (MEMLIST)
```

Back up the first TTR address (for example to 44A01) to begin searching on the previous track for any members that start on an earlier track and continue over a track boundary.

A read multiple error is retried one time before a PDS892E error message is issued because a control unit can become stressed with too much activity. It reads the data correctly if the input operation is redriven. To increase this threshold to permit more redrive attempts, reassemble and relink the PDS#OPT4 module with a larger RMRETRY parameter on the PDS#INIT macro as in the following example:

```
PDS#INIT RMRETRY=7
```

After changing RMRETRY, exit StarTool FDM and restart it and issue a CONTROL DEFAULTS subcommand to confirm that the threshold was changed as shown in the following example:

```
PDS037I Installation defaults from PDS#OPT4 1997/04/01 14.12:
Access control method      NONE
Security tables            SYSTEMSE SYSTEMSN APPLEXP
READ MULTIPLE retries      7
. . .
```

You can determine how effective this change is by issuing a CONTROL IOSTATS subcommand after an input operation. IOSTATS reports on input and output statistics. It zeroes all counters after each report; zero quantities are not reported. An output like the following documents redriven read multiple operations:

```
6 REDRIVEN READ ERRORS
15 INPUT ROUTINE ENTRIES
8 TTR CHANGES
. . .
```

If re-driving the input operation additional times does not suppress read multiple error messages and double buffering is able to read the data without I/O errors, the track has a SKIP DISPLACEMENT problem.

After a message like the following:

```
PDS892E Read multiple failed at TTR=044B01; CCHHR=04FB.0003.01
```

execute ICKDSF to inspect and correct data on this track by submitting a job similar to the following:

```
//FIXTRK EXEC PGM=ICKDSF
//SYSPRINT DD SYSOUT=*
//VOLUME DD DISP=SHR, VOL=SER=SYSAK3, UNIT=3380
//SYSIN DD *
INSPECT DDNAME(VOLUME) NOSKIP CYLRANGE(X'04FB',X'04FB') -
        HEADRANGE=(3,3) CHECK(2) ASSIGN PRESERVE NOVERIFY
//
```

Notes on the above INSPECT statement for ICKDSF:

- DDNAME points to the DDNAME allocated in the JCL (//VOLUME).
- NOSKIP performs primary surface checking; **SKIP** would also perform skip displacement checking (use **SKIP** if you want a more extensive test).
- CYLRANGE cylinder range to check from the PDS892E message.
- HEADRANGE head range to check from the PDS892E message.
- CHECK number of repeated track checks desired.
- ASSIGN flags specific tracks; if defective, ICKDSF can also assign new alternate tracks.
- PRESERVE saves data on the inspected track and restores it.
- NOVERIFY bypasses verification of the volume name.

PDS893E Read multiple error -- next TTR (ttraddr) is incorrect

StarTool FDM has an input mode called "read multiple" that can read an entire track of disk data at a time. The last read command failed to obtain a new TTR address for the next track even though no error condition was presented to StarTool FDM.

After a read multiple input fails, StarTool FDM uses its alternate double buffering input mode for the remainder of the subcommand. With the next subcommand, read multiple is attempted again.

If many subcommands issue failure messages for read multiple, consider changing the mode for input buffering to double with the following subcommand:

```
CONTROL DOUBLE
```

This error is due to equipment errors. Notify your hardware vendor of a problem with DASD read multiple on the device currently allocated.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS894E Use COPY to get COPYMOD reblocking

The DUP subcommand cannot reblock load modules. Use the COPY subcommand. A COPYMOD operation is requested automatically.

PDS895E Load module conversion is not allowed

The DUP subcommand does not support copying load members to source libraries or copying source members to load libraries.

PDS896E RETAIN record search failed; buffering will be downgraded to multiple

The search of the in-storage track buffers for a record failed. This operation continues using MULTIPLE buffering. Contact your systems programmer or contact SERENA for help.

PDS897E RETAIN buffer GETMAIN failed

An attempt was made to obtain the number of track buffers that you specified in the CONTROL RETAIN(*n*) subcommand; however, your region does not contain enough available storage for all of these buffers. Processing continues using the number of buffers that were successfully obtained.

PDS900E The source and target data sets must differ

The copy programs supported by the COPY subcommand do not allow you to copy members into the input data set. When the input and output data sets are identical, a data set compress is attempted. Perform this function with the DUP subcommand or with the REPRO subcommand using the AS or TO keyword.

PDS901E keyword parameter error; message

The VSAM positioning keyword displayed is in error for the reason shown. The subcommand does not execute because of the error message. The fields in the PDS901E message are as follows:

keyword is FROMKEY, FROMADDRESS, FROMNUMBER, TOKEY, TOADDRESS or TONUMBER.

message is one of the following:

"Not a KSDS data set"
(FROMKEY and TOKEY can be used only for a KSDS).

"This is a component"
(The data set allocated is a KSDS DATA or INDEX component, and not the CLUSTER so FROMKEY and TOKEY cannot be supported).

"Key is too long"
(Generic keys are supported for FROMKEY and TOKEY but they cannot exceed the defined key length).

"Not a multiple of 4096"
(FROMADDRESS for a linear data set must be on a control interval boundary such as 0, 4096 or 8192).

- "Use numbers for a RRDS"
(FROMNUM and TONUM is all that can be used for a fixed or variable RRDS. FROMADDRESS and TOADDRESS can be used for control interval access, however).
- "This is not a RRDS"
(FROMNUM and TONUM can be used only for a fixed or variable RRDS).
- "This uses CI-access"
(FROMNUMBER and TONUMBER are not allowed for control interval access to a DATA or INDEX component).
- "Incompatible with keys"
(TOADDRESS is not compatible with FROMKEY and TOKEY is not compatible with FROMADDRESS).
- "Odd number of hex digits"
(Hexadecimal generic keys require an even number of characters. X'12' is valid, X'123' is not valid).
- "Invalid hexadecimal digits"
(Hexadecimal generic keys must contain valid hexadecimal characters like X'0123456789ABCDEF')
- "Not a VSAM data set"
(These positioning parameters are supported only for VSAM data sets).

PDS910E TSO command *name* is not allowed

You are not authorized to use this TSO command. Contact your systems support staff if this restriction causes a problem.

PDS911E This data set already has 16 extents

The FIXPDS subcommand cannot add another data set extent since this data set already has the maximum number of extents allowed. Compress your data set (with the COMPRESS subcommand). Free any unused extents (with the FIXPDS subcommand using RELEXT, RELSAVE or RELEASE operands). Try FIXPDS ADDTRK or ADDCYL again.

PDS920E Use of *subname* is restricted

You are not authorized to use this subcommand or subcommand/operand combination. Contact your systems support staff if this restriction causes a problem.

PDS930E *name* is an invalid subcommand abbreviation

This subcommand name abbreviation is not allowed. Enter additional characters to create a valid subcommand name.

PDS940E Invalid password; contract your marketing representative

The AUTH subcommand requires a password to extend your StarTool FDM evaluation period. AUTH can be used only by the systems programmer responsible for StarTool FDM. Contact your marketing representative for the AUTH password.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS941E RELEASE is unable to open this data set

The FIXPDS subcommand could not open the data set to release unused disk space.

PDS942E RELEASE failed; this data set is already open

The FIXPDS subcommand cannot release disk space on a data set that is already open in your session. This includes uses of the data set such as for ISPLLIB, ISPLMLIB, ISPLLIB or STEPLIB.

After getting all instances of the data set closed, attempt the FIXPDS subcommand again.

PDS943E This data set has never been opened; you need at least a RECFM field

The FIXPDS subcommand could not open the data set to release unused disk space because the DCB contains insufficient information. Enter a FIXPDS subcommand with a RECFM parameter to initialize (and OPEN) the data set; then, try the FIXPDS with release again.

PDS944E RELEASE failed; this data set is allocated by userid

The FIXPDS subcommand could not release space from this data set because the indicated user or JOB had the data set allocated. The userid displayed is only the last user to allocate the data set; others could be allocated to it as well.

PDS945E This data set is in use by userid

You cannot edit or update this non-partitioned data set because the indicated user or JOB is allocated to it. The userid displayed only identifies the last user to allocate it; others may be allocated to the data set as well.

PDS961E VSAM type error at loc=locnum; message; FEEDBACK=pdrccprs

A VSAM I/O operation failed with a logical error (return code 8).

In the PDS961E message, data is filled in as follows:

type	ERASE, OPEN, POINT, GET or PUT depending on the operation.
loc	RRN for a RRDS or RBA otherwise.
locnum	RRN (relative record number) of the error for a RRDS; otherwise, RBA (relative byte address) of the error.

- message one of the following short explanations for the indicated error. For more information, look up the hex reason code indicated as "rs=" below or as documented in *SC26-4747 DFP MACRO Instructions for Data Sets* under topic *Reason Code (Logical Errors)*.
- rs=0C, "Record keys are out of order"
(Key sequence error; output records are not in ascending key sequence).
 - rs=10, "This record is not present"
(for an RRDS, the FROMNUMBER specified is not in the data set; the record may have been deleted).
 - rs=20, "RBA does not match any record"
(for a DATA or INDEX component using control interval processing, a KSDS or a ESDS, the FROMADDRESS specified does not match the starting RBA of any record).
 - rs=48, "Keyed request for a component"
(for a variable RRDS DATA component, StarTool FDM attempts to read the component with a key for the relative number. This fails because it is not being accessed through the CLUSTER name).
 - rs=4C, "Addressed PUT to a KSDS"
(for REPLACE with a KSDS using FROMADDRESS or TOADDRESS, updates cannot be performed if addressed access is being used).
 - rs=60, "You can not update the key"
(for REPLACE with a KSDS, an alternate index or a PATH, the key (KSDS key or AIX key) cannot be updated).
 - rs=6C, "Output record length is too long"
(the record length exceeds the maximum specified record length).
 - rs=88, "Addressed access for spanned data"
(for FROMADDRESS or TOADDRESS for a KSDS, you cannot retrieve spanned records. For access to a KSDS DATA component, spanned records cannot be retrieved without using control interval access).
 - rs=90, "Invalid pointer--no such record"
(for GET access through a PATH, the pointer in the alternate index is invalid. There is no associated base record).
 - rs=C8, "Addressed access through a path"
(for FROMADDRESS or TOADDRESS through a PATH, addressed access is not allowed).
 - rs=F0, "Open for update failed"
(the data set is open elsewhere or not reusable and an OPEN for UPDATE failed. The data set was reopened for INPUT only again).

Chapter 6: Error Messages (PDS600E - PDS999E)

other, "Call SERENA"

(this code has no short explanation. FAX or call SERENA indicating the type of VSAM data set, the command entered and the FEEDBACK= code so that these messages can be updated).

FEEDBACK provides the hex RPLFDBK word. The two digits are:

pd hex problem determination function (PDF) code used to locate the point in VSAM record management where a logical error is recognized.

rc return code; 08 means there was a logical error.

cp component code. It is 01 or 02 for the base cluster; 02 or 03 for an alternate index and 04 or 05 for the upgrade set.

rs reason code with a logical error.

rs=04 the end of the data set was encountered or the search argument is greater than the data set high key.

rs=08 you attempted to store a record with a duplicate key or there is a duplicate record for an alternate index with the unique key option.

rs=0C One of the following occurred:

- an attempt to store a duplicate key.
- skip-sequential reads were not done in ascending key sequence.
- shared resources buffer pool is full.

- storing a record out of key sequence in skip-sequential mode.
- rs=10 the record was not found or the RBA was not found in the buffer pool.
- rs=14 the record was found but the buffer is under exclusive control of another request.
- rs=18 the record is on a volume that cannot be mounted.
- rs=1C the data set cannot be extended because VSAM cannot allocate additional direct access space.
- rs=20 the RBA specified is not the address of any data record in the data set.
- rs=24 the record being inserted does not fit in any key range specified when the data set was created.
- rs=28 there was insufficient virtual storage in your address space to complete the request.
- rs=2C the work area was not large enough for the data record or for the buffer.
- rs=30 invalid options, data set attributes or processing conditions were specified by MVS/DFP.
- rs=34 invalid options, data set attributes or processing conditions were specified by MVS/DFP.
- rs=40 there is insufficient storage to add another string or the maximum number of place holders that may be allocated to the request have already been allocated.
- rs=44 an attempt was made to use a processing type that was not specified when the data set was opened.
- rs=48 a keyed request was made for an entry-sequenced data set (ESDS) or a PUTIX or GETIX against a RRDS or ESDS.
- rs=4C an addressed or control interval PUT to add to a key-sequenced data set or variable-length RRDS or a control interval PUT to a fixed-length RRDS was attempted.
- rs=50 an ERASE was issued for one of the following:
 - For access to an entry-sequenced data set.
 - For access to an entry-sequenced data set through a path.

Chapter 6: Error Messages (PDS600E - PDS999E)

- With control interval access.
- rs=54** OPTCD=(LOC) was used for a PUT request or in a RPL in a chain or RPLs.
- rs=58** GET sequential was issued without positioning or you changed from addressed access to keyed access without being positioned for keyed-sequential retrieval. There was no positioning established for sequential PUT insert for a RRDS, or you attempted an illegal switch between forward and backward processing.
- rs=5C** a PUT for update or an ERASE without a previous GET for update or a PUTIX without a previous PUTIX was attempted.
- rs=60** an attempt was made to update the prime key or the key of reference while making an update.
- rs=64** an attempt was made to change the length of a record while making an addressed update.
- rs=68** the Request Parameter List (RPL) options are invalid or conflicting:
 - SKP was specified, but KEY was not or BWD was.
 - BWD was specified with CNV.
 - LRD and FWD were both specified.
 - Neither KEY, ADR, nor CNV was specified.
 - BFRNO is invalid (less than one or greater than the number of buffers in the pool).
 - WRTBFR, MRKBFR or SCHBFR used without the shared resource option or TRANSID was greater than 31.
 - ICI processing is used with something besides PUT or GET.
 - MRKBFR MARK=OUT or MRKBFR MARK=RLS was issued but the RPL did not have a data buffer.
 - RPL specified WAITX but ACB is not LSR or GSR.
- rs=6C** the RECLLEN was larger than the maximum allowed, equal to zero or smaller than the sum of the length and displacement of the key field. This error can also mean that RECLLEN is not equal to slot size if a RRDS is being accessed.
- rs=70** the KEYLEN was too large or equal to zero.
- rs=74** an invalid request was issued during initial load of a new cluster:
 - OPTCD=UPD on GET, ERASE, PUT, or POINT

— RRDS request other than PUT insert

- rs=78 a request was made under an incorrect TCB. Some functions, like GETMAIN/FREEMAIN, must be issued from same TCB.
- rs=7C a request was cancelled for a JRNAD exit.
- rs=80 a loop was found in the index horizontal pointer chain during index search processing.
- rs=84 a locate mode attempt to retrieve a spanned record was made.
- rs=88 an attempt was made to retrieve a spanned record with an addressed GET.
- rs=8C an inconsistent spanned record was encountered.
- rs=90 a pointer in an alternate index is invalid; there is no associated base record.
- rs=94 the maximum number of pointers for an alternate index has been exceeded.
- rs=98 there are not enough buffers available to handle this request (shared resources only).
- rs=9C an invalid control interval was detected during keyed processing, an addressed GET UPD request failed because the control interval flag was on, or an invalid control interval or index record was detected.
- rs=A0 one or more candidates were found that had a modified buffer to be written. The buffer was left in write status with valid contents.
- rs=C0 an invalid relative record number was used.
- rs=C4 an addressed request was made to a fixed or variable RRDS.
- rs=C8 an addressed or control interval request was made through a path.
- rs=CC a PUT insert was attempted in backward mode.
- rs=D0 an ENDREQ was issued against an RPL that has an outstanding WAIT against its associated ECB. An ENDREQ was issued from a STAE or ESTAE routine against a RPL that was started before the ABEND. No ENDREQ processing was done.
- rs=D4 during a control area split, an existing condition prevents the split of the index record. The index and/or data control interval size may need to be increased.
- rs=DA SVC 109 passed back an unknown return code.
- rs=E0 MRKBFR OUT was issued for a buffer with invalid contents.
- rs=E4 a caller in cross-memory mode is not in supervisor state or the RPL of the caller in SRB or cross-memory mode does not specify SYN processing.
- rs=E8 the ECB used on an UPAD request was not posted by a caller in

Chapter 6: Error Messages (PDS600E - PDS999E)

cross memory mode.

rs=EC a validity check error occurred for SHAREOPTIONS 3 or 4.

rs=F0 shared resources are in use and one an attempt is being made to obtain a buffer in exclusive control, a buffer is being invalidated, or the buffer use chain is changing.

rs=F4 the register 14 stack size is not large enough.

rs=F8 the register 14 return offset is negative.

rs=FC record mode processing is not allowed for a linear data set.

rs=FD VERIFY is not a valid function for a linear data set.

PDS962E Keyed and sequential access counts differ

The VERIFY subcommand reads a KSDS or AIX data set in key-sequence and reports on the record counts (unless NOREAD is specified). Then, the data set is read sequentially to determine if the index is synchronized with the data. This message is issued when the record counts do not agree.

To get the sequential record count, reenter the VERIFY subcommand but add a FROMADDRESS(0) operand.

Recvoer the data set by copying the data (using the IDCAMS REPRO command or the StarTool FDM DUP subcommand) and using a FROMADDRESS(0) operand to access the data sequentially. After the data set unload, the data set can be deleted and redefined and the IDCAMS REPRO command can be used to reload the data set.

PDS963E VSAM DIV *type error at RBA=locnum; message; FEEDBACK=oprcreas*

A VSAM DIV (Data-in-Virtual) operation failed on a linear data set.

If you get this error message, FAX or call SERENA indicating a VSAM linear data set, the command entered, the message received and the FEEDBACK= code.

In the PDS963E message, data is filled in as follows:

type	is IDENTIFY, ACCESS, MAP, UNACCESS or SAVE depending on the DIV operation that failed.
locnum	is the RBA (relative byte address) of the error.
message	is Call SERENA indicating that no better short explanation is available. For more information, reference the DIV macro in the Assembler Programming Reference under Return and Reason Codes using rc and reas from FEEDBACK=.
FEEDBACK	provides the HEX oprcreas feedback word; these digits can be interpreted as:
op	a hexadecimal number that ranges from one to eight. It is used to locate the point in the VSAM record management where the logical error occurred.
rc	a hexadecimal return code. This is 04, 08 or 0C indicating the severity level.
reas	a hexadecimal reason code. This is used to look up a description of the problem encountered.

PDS971E COPY/COMPRESS/IDCAMS has completed; RC=nn optional-message

A COPY, COMPRESS or IDCAMS subcommand finished with a non-zero return code. For an IDCAMS failure, an IDCAMS error message is provided in the optional-message field.

PDS973E No default output data set name has been established

The default output data set name for the COPY or COMPDIR subcommand has not yet been established. Until a COPY or COMPDIR subcommand is entered with an actual data set name as output, * notation for the default output data set name cannot be used.

PDS975E Update failed; you have insufficient access authority for this data set

A StarTool FDM subcommand attempted to open the data set for update, but your security system indicated that you are not authorized to update this data set.

This subcommand is terminated without opening the data set and without causing a security ABEND (such as S913).

PDS977E HFS DATA SETS ARE NOT SUPPORTED

This data set is an HFS data set and is not supported by StarTool FDM. To continue, choose another data set that is supported.

PDS976E OPEN failed; you have insufficient access authority for this data set

A StarTool FDM subcommand attempted to open this data set but your security system indicated that you are not authorized to access this data set in this manner.

Chapter 6: Error Messages (PDS600E - PDS999E)

This subcommand will be terminated without opening the data set and without causing a security ABEND (such as S913).

PDS980E IEBCOPY was interrupted

A compress or copy operation was interrupted by an attention (PA1). For a copy operation, this means that the output was only partially completed; for a compress operation, compress is performed in-place on your data set. Since IEBCOPY did not complete its operation, the data set may be destroyed.

If you get the message contact SERENA for investigation of the problem.

PDS981E This option is not available; StarTool FDM/SuperEdit is not licensed

Issued when you type a PBROWSE or PEDIT subcommand (or a browse or edit of a VSAM data set and they call PBROWSE or PEDIT) and the StarTool FDM SUPEREDIT option is not licensed.

PDS981E StarTool FDM/StarWarp Option are not licensed on this processor

StarTool FDM and the StarWarp Option are not permitted on this processor because of Registry service options in member IFAPRDXX in SYS1.PARMLIB.

Contact your systems programmer or your marketing representative for assistance.

PDS982E Sequential input must be copied to a specific output member

Sequential input must be copied to a single output member. Use syntax such as PDS.DATA(*membername*).

PDS983E COMPDIR requires a partitioned data set for member compares

COMPDIR cannot compare members of a PDS or a PDSE with a non-partitioned data set. Correct the data set name and enter the subcommand again.

PDS984E {COMPDIR/COPY/CREATE} terminated due to error

Because of a previously noted error condition, the COMPDIR, COPY or CREATE subcommand could not continue. Correct the situation and reenter the subcommand.

PDS985E invalid hexadecimal digits

A non-hexadecimal character was used as a hexadecimal digit.

PDS986E Severe error in edit processing; RC=*nn*

Indicates that EDIT obtained a fatal error. This problem indicates a physical blocksize problem.

For more information, type a VERIFY subcommand on the member or data set.

Return codes from edit have the following meanings:

- RC=00 Normal execution, data was saved.
- RC=04 Normal execution, no data was saved.
- RC=14 EDIT failed, the member or data set was in use.
- RC=16 EDIT failed, the member or data set was empty.
- RC=20 EDIT failed, critical error prevented continued processing.

PDS987E PUTGET Service failed; RC=nn

Indicates that the PUTGET message service failed.

Return code 16 may be provided if StarTool FDM is invoked in a batch ISPF environment without NEWAPPL(ISR) because the input cannot be read. Add NEWAPPL(ISR) to the ISPF invocation and retry the job.

Indicates that the StarTool FDM environment was not set up correctly. Call SERENA for assistance.

Chapter 6: Error Messages (PDS600E - PDS999E)

Return codes from PUTGET have the following meanings:

- RC=00 Normal input line was obtained from rexx data stack, a command procedure DATA-ENDDATA group or the terminal.
- RC=04 Normal input line was obtained from an in-storage list or command procedure.
- RC=08 PUTGET failed because of an attention interrupt and the attention handler turned on the completion bit in the ECB.
- RC=12 No prompting was allowed on a PROMPT request due to PROFILE NOPROMPT or the input source is an in-storage list (but not an EXEC). Alternately, a line could not be obtained for a MODE request. Second level messages exist (the current stack is not the terminal) but PROFILE PAUSE is not in effect.
- RC=16 NOWAIT was specified and no line was put out. Alternately, a barrier element is on top of the stack and the current source of input is a data set and SUBSTACK=NO was specified or defaulted. No command buffer is returned.
- RC=20 NOWAIT was specified for GET processing and no line was available for input.
- RC=24 Invalid parameters were passed to the PUTGET service.
- RC=28 PUTGET was unable to obtain sufficient storage for output buffers.
- RC=32 The terminal has been disconnected.
- RC=36 A barrier element is on the top of the stack and SUBSTACK=YES was specified. No command buffer is returned.

PDS988E Member is not available; RC=nn, RS=mm

Indicates that the subcommand cannot read a member due to an error documented by the RC and RS keywords.

Return code 4 with reason code 8 is issued by StarTool FDM if you attempt to use the REPLACE subcommand to update PDSE members in a data set that is allocated on another system. You can update this data set if you allocate the data set as OLD before executing the REPLACE subcommand. This is a known restriction for PDSE data sets. Call SERENA for assistance.

Return codes from PUTGET have the following meanings:

- RC=00 Successful execution.
- RC=04 The member is not available for some reason.
 - RS=00 Member is no longer present in the data set.
 - RS=04 You only have RACF execute authority to this PDSE so it cannot be input with this subcommand.

- RS=08 Sshare options for the data set do not permit shared access to the member. This means that the data set cannot be updated because it is allocated on a different system in the SYSPLEX.
- RS=12 PDSE is open for output and the FIND macro was issued to point to some other member.
- RC=08 A problem was encountered in the FIND macro.
 - RS=00 Permanent I/O error during the directory search.
 - RS=04 Insufficient virtual storage is available.
 - RS=08 Invalid DEB due to a programming error.
- RC=12 An I/O error occurred while flushing system buffers containing member data for a PDSE member.
- RC=16 No DCB address was input due to a programming error.

PDS990E Extent initialization read failed

The first read for an extent of this data set failed. This problem is unusual unless your directory contains invalid TTR pointers.

PDS991E Permanent I/O error at TTR=*ttraddr*

An uncorrectable I/O error was encountered at the displayed TTR address.

This error may be due to data set or equipment errors. A VERIFY subcommand can provide more information. Data set recovery is required if this is a data set error.

PDS992E This subcommand does not support VSAM data sets

The FIXPDS subcommand only supports partitioned, partitioned extended, sequential and direct data sets.

PDS993E Permanent I/O error; *ucb,DA,ddname,READ/WRITE,error message,hexbbcchr, {QSAM/BSAM/BPAM/BPAM S} [,hexttr,relrec#num,smsretur,smsreasn]*

An uncorrectable I/O error was encountered at the displayed disk address. The error message is generated by a SYNAD recovery routine.

If you get this message, send a copy of it by mail or FAX to SERENA so that the message format can be verified.

This error may be due to data set or equipment errors. A VERIFY subcommand can provide more information. Data set recovery is required if this is a data set error.

Chapter 6: Error Messages (PDS600E - PDS999E)

In this message, data is filled in as follows:

ucb	the UCB address of the active device
DA	for direct access
ddname	the DDNAME of the data set
READ/WRITE	the function being performed
error message	a short description of the problem encountered
hexbbcchhr	the actual address of the error in hexadecimal
BSAM/QSAM/BPAM	access method in use (the data set is sequential or a PDS).
BPAM S	indicates the data set was a PDSE and that the following fields are also provided.
hextr	TTR (token address) of the PDSE member in error.
relrec#num	relative record number of the PDSE error. Add 1,048,576 to get the actual TTR of the record.
smsretur	SMS return code. If you suspect a system software error, report the SMS return code and reason code to your IBM service representative.
smsreasn	SMS reason code. If you suspect a system software error, report the SMS return code and reason code to your IBM service representative.

PDS994E Permanent I/O error; rbanumber, type, volser, ucb, DA, ddname, zz-OP, error message, hexbbcchhr, VSAM

An uncorrectable VSAM I/O error was encountered at the displayed disk address. The error message is generated by the VSAM POINT, GET, ERASE or PUT read/write routines.

If you get this message, send a copy of it by mail or FAX to SERENA so that the message format can be verified.

This error may be due to data set or equipment errors. A VERIFY subcommand can provide more information. Data set recovery is required if this is a data set error.

In this message, data is filled in as follows:

rbanumbr	RBA (relative byte address) of the error
type	DATA or INDEX depending on the active component
volser	volume serial name
ucb	iUCB address of the active device
DA	DA for direct access
ddname	DDNAME of the data set
zz-OP	channel command in the first two bytes
error message	short description of the problem encountered
hexbbcchr	actual address of the error in hexadecimal
type	VSAM is the access method in use

PDS995E LLA failed; update access authority is required

Indicates that you did not have update access to the data set being processed by the LLA subcommand.

PDS996E This subcommand is not supported for program objects

The following subcommands and functions are not yet supported for program objects (load members in PDSE data sets):

CSECTS	map the external symbols in an ISPF table.
MAP	modify the AMODE or RMODE of CSECT external symbols.
REPLACE	update a program object.
ZAP	update a program object.

PDS997E Different version of StarTool FDM reinvoked

When ISPF services are requested within StarTool FDM and it has been invoked outside of ISPF (READY mode), StarTool FDM reinvokes itself recursively as an ISPF dialog to use ISPF services.

Indicates that a different version of StarTool FDM was entered on the recursive entry. This can happen if you invoke StarTool FDM from LINKLIST, LPALIB or STEPLIB and you have a different copy of StarTool FDM in your ISPLLIB data set.

This error is detected by comparing the assembly date and time of the calling version of StarTool FDM with the corresponding values from the invoked version of StarTool FDM.

Chapter 6: Error Messages (PDS600E - PDS999E)

PDS998E ABEND *Sxxx* loading this module

The displayed ABEND code was received while loading this module. If you have your user profile set to WTPMSG as in the TSO command, PROFILE WTPMSG, you should also receive a CSV011I message with a return code or a CSV016I message as shown below:

ABEND	Associated Message	Description
S106	CSV011I Return Code=0B	FETCH routine error
S106	CSV011I Return Code=0C	Insufficient storage to load the module
S106	CSV011I Return Code=0D	Invalid record type in load module
S106	CSV011I Return Code=0E	Invalid TTR address in load module
S106	CSV011I Return Code=0F	Uncorrectable I/O error in load module
S706	CSV016I	"Not Executable" module

PDS999E ABEND *Sxxx Unnnn AT hexvalue* IN PROGRAM *prognam*

StarTool FDM abended. The various message fields are as follows:

<i>Sxxx</i>	system ABEND code
<i>Unnnn</i>	user ABEND code
<i>hexvalue</i>	if signed, an offset from the routine entry point; otherwise, the address of the abending instruction.
<i>prognam</i>	name of the abending program (if available)
	— PDSMAIN ABEND in the StarTool FDM mainline
	— PDS#SECI ABEND in the security interface
	— PDSALIAS ABEND in the subroutine assembly
	— PDSCBSX ABEND in the COPYBOOK setup routine
	— PDSCPARS ABEND in the COPYBOOK parse routine
	— PDSDECOD ABEND in the DISASM routine
	— PDSDELNK ABEND in the DELINK routine
	— PDSFCALC ABEND in the CALC routine
	— PDSFILE ABEND in the StarTool FDM batch execution routine
	— PDSFPARS ABEND in the StarTool FDM batch emulation parser
	— PDSIDCAM ABEND in the IDCAMS interface
	— PDSIDSPY ABEND in the ISPMODE dialog

Serena™ StarTool® FDM 7.4 Messages Guide

- PDSIPARS ABEND in the StarTool FDM parser
- PDSPARSE ABEND in the PARSE interface
- PDSSPACE ABEND in the service routines
- PDSVTOCR ABEND in the VTOC read routine
- VTSOCMD ABEND in the TSO command check

For more details, see *"Appendix B. ABEND Processing"* in the *StarTool FDM Reference Guide*.

Chapter 6: Error Messages (PDS600E - PDS999E)

A

abbreviation
 message PDS930E *131*

ABEND
 message PDS030I *24*
 message PDS033I *25*
 message PDS998E *146*
 message PDS999E *146*

ALIAS
 message PDS010I *21*
 message PDS703E *91*
 message PDS740E *94*
 message PDS852E *105*
 message PDS855E *106*
 message PDS856E *106*
 message PDS857E *107*
 message PDS975E *139*

alias
 addressing mode *99*
 apparent *123*
 associated members *41*
 directory pointer *98, 100*
 display flag *55*
 found in RESTORE *46*
 main member *56, 122*
 message PDS010I *21*
 message PDS160I *41*
 message PDS190I *46*
 no main member *122*
 orphan *122*
 real member *31*
 residence mode *99*
 RLD/CONTROL *99, 100*

 statistics *38, 44*
 update *31, 34*

AMODE
 conflicts *125*
 inconsistent *99*
 message PDS120I *39*
 not changed *93*
 updated *34*
 with OVERLAY *126*

APF
 message PDS021I *22*
 message PDS022I *22*
 message PDS023I *22*
 message PDS224I *54*
 message PDS232I *56*
 message PDS710E *91*
 message PDS720E *92*
 message PDS721E *92*
 message PDS722E *92*

apparent alias *123*

ATTRIB
 AMODE *39*
 message PDS020I *22*
 message PDS021I *22*
 message PDS022I *22*
 message PDS023I *22*
 message PDS024I *22*
 message PDS025I *23*
 message PDS026I *23*
 message PDS064I *31*
 message PDS066I *31*
 message PDS092I *34*
 message PDS103I *37*

message PDS104I *37*
 message PDS117I *38*
 message PDS118I *38*
 message PDS119I *38*
 message PDS120I *39*
 message PDS160I *41*
 message PDS170I *42*
 message PDS230I *55*
 message PDS232I *56*
 message PDS279E *70*
 message PDS385A *76*
 message PDS396A *78*
 message PDS701E *90*
 message PDS702E *90*
 message PDS703E *91*
 message PDS705E *91*
 message PDS710E *91*
 message PDS720E *92*
 message PDS721E *92*
 message PDS722E *92*
 message PDS723E *92*
 message PDS724E *93*
 message PDS726E *93*
 message PDS740E *94*
 message PDS840E *103*
 message PDS841E *103*
 message PDS855E *106*
 message PDS856E *106*
 message PDS857E *107*
 message PDS860E *122*
 message PDS861E *122*
 message PDS863E *122*
 message PDS864E *123*
 message PDS868E *123*
 message PDS880E *125*
 message PDS881E *125*
 message PDS882E *125*
 message PDS883E *125*
 message PDS884E *126*
 message PDS975E *139*

message PDS985E *140*
 message PDS996E *145*
 RMODE *39*

AUTH

message PDS015I *21*
 message PDS016I *21*
 message PDS866E *123*
 message PDS940E *131*
 authorized
 message PDS021I *22*
 message PDS023I *22*

B

BINDER

message PDS1412 *40*
 message PDS857E *107*
 return codes *108*

BLK3350

message PDS859E *122*

BLK3380

message PDS859E *122*

BLK3390

message PDS859E *122*

BPAM

message PDS993E *143*

BROWSE

message PDS100I *37*
 message PDS590W *86*
 message PDS731E *94*
 message PDS733E *94*
 message PDS828E *100*
 message PDS850E *105*
 message PDS853E *105*
 message PDS854E *106*
 message PDS858E *121*
 message PDS901E *130*
 message PDS961E *132*
 message PDS963E *138*
 message PDS981E *140*

message PDS994E *144*
 message PDS997E *145*
 BSAM
 message PDS993E *143*
 BUFFERING
 message PDS031I *24*
 message PDS035I *25*
 message PDS993E *143*

C

CHANGE
 message PDS049I *27*
 message PDS222I *54*
 message PDS223I *54*
 message PDS224I *54*
 message PDS225I *54*
 message PDS226I *55*
 message PDS227I *55*
 message PDS228I *55*
 message PDS298I *72*
 message PDS381A *76*
 message PDS410W *79*
 message PDS412W *79*
 message PDS530W *83*
 message PDS828E *100*
 message PDS830E *101*
 message PDS831E *101*
 message PDS835E *101*
 message PDS843E *103*
 COBOL
 II compiler *63*
 MVS compiler *63*
 OS/390 compiler *63*
 RES and NORES *82*
 RES and NORES with ENDJOB *82*
 TGT Global table *82*
 V2 compiler *62*
 VS compiler *59*
 COMBINE

message PDS051I *27*
 message PDS174I *42*
 message PDS290I *72*
 message PDS465W *81*
 message PDS780E *96*
 message PDS782E *96*
 message PDS784E *96*
 message PDS807E *97*
 COMPARE
 message PDS853E *105*
 message PDS854E *106*
 message PDS858E *121*
 message PDS859E *122*
 COMPDIR
 message PDS165I *41*
 message PDS175I *42*
 message PDS176I *42*
 message PDS193I *46*
 message PDS273I *70*
 message PDS554W *85*
 message PDS555W *85*
 message PDS780E *96*
 message PDS835E *101*
 message PDS885E *126*
 message PDS973E *139*
 message PDS982E *140*
 message PDS984E *140*
 COMPRESS
 message PDS041I *26*
 message PDS171I *42*
 message PDS480W *82*
 message PDS835E *101*
 message PDS865E *123*
 message PDS971E *139*
 message PDS975E *139*
 message PDS980E *140*
 CONDEND
 message PDS261I *68*
 conflicts
 OVERLAY and AMODE31 *126*

OVERLAY and AMODEANY	126	message PDS780E	96
OVERLAY and REENTRANT	126	message PDS781E	96
OVERLAY and REUSABLE	126	message PDS784E	96
OVERLAY and RMODEANY	126	message PDS835E	101
OVERLAY and SCATTER	126	message PDS897E	130
REENTRANT and NOT REUSABLE	125	COPY	
RMODEANY and AMODE24	125	message PDS051I	27
RMODEANY and AMODEANY	125	message PDS075I	32
SCATTER and REUSABLE	125	message PDS171I	42
TEST and NOT EDIT	125	message PDS174I	42
CONTROL		message PDS273I	70
message CSV003I	26, 47	message PDS465W	81
message PDS001I	21	message PDS484W	82
message PDS030I	24	message PDS532W	83
message PDS031I	24	message PDS555W	85
message PDS032I	25	message PDS780E	96
message PDS033I	25	message PDS835E	101
message PDS034I	25	message PDS852E	105
message PDS035I	25	message PDS859E	122
message PDS036I	26	message PDS865E	123
message PDS037I	26	message PDS885E	126
message PDS038I	26	message PDS900E	130
message PDS046I	27	message PDS971E	139
message PDS052I	27	message PDS973E	139
message PDS053I	27, 28	message PDS980E	140
message PDS059I	28	message PDS982E	140
message PDS080I	33	message PDS984E	140
message PDS100I	37	CREATE	
message PDS194I	47	message PDS174I	42
message PDS277I	70	message PDS780E	96
message PDS280I	70	message PDS835E	101
message PDS281I	70	message PDS984E	140
message PDS282I	70	CSECTS	
message PDS283I	71	message PDS853E	105
message PDS284I	71	message PDS857E	107
message PDS285I	71	CSV003I message	26, 47
message PDS286I	71	CSV011I message	146
message PDS287I	71	CSV016I message	146
message PDS288I	71	CSV019I message	102
message PDS570W	85		

CSV023I message *122*
 CSV300I message *99, 100*

D

DAIRFAIL
 message PDS835E *101*

data set
 message PDS381A *76*

DCF
 message PDS859E *122*

default member
 message PDS002I *21*
 message PDS858E *121*

DELETE
 message PDS002I *21*
 message PDS040I *26*
 message PDS162I *41*
 message PDS163I *41*
 message PDS393A *77*
 message PDS394A *78*
 message PDS850E *105*
 message PDS853E *105*
 message PDS856E *106*
 message PDS858E *121*
 message PDS862E *122*
 message PDS975E *139*

DELINK
 message PDS857E *107*

directory
 empty *92*
 expansion *106*
 full *106*
 I/O error *102*
 in one extent *124*
 length error *125*
 null *125*
 statistics *44*
 unreadable *94*

directory entry

alias entry *31*
 alias pointer *98, 122*
 alias pointer wrong *100*
 authorized *22*
 DELETE *26*
 display *40*
 documentation *68*
 dummy *101*
 duplicate *85, 95, 99*
 no RLD/CONTROL *92*
 notelist error *94*
 obsolete linkage-editor *22, 92, 93*
 out of order *94, 100*
 page aligned *22*
 RLD/CONTROL wrong *100*
 SSI *23*
 statistics *55*
 synchronize *70, 73, 86*
 TTR invalid *143*
 TTR not found *124*
 TTR too high *124*
 update aliases *34*

DIRENTRY
 message PDS023I *22*
 message PDS143I *40*
 message PDS262I *68*
 message PDS853E *105*
 message PDS858E *121*

DISASM
 message PDS1412 *40*
 message PDS141I *40*
 message PDS384A *76*
 message PDS704E *91*
 message PDS857E *107*

DISPLAY
 message PDS714E *92*

DS1LSTAR
 message PDS864E *123*
 message PDS872E *124*
 message PDS873E *124*

DSAT

message PDS859E *122*

DSNAME

message PDS121I *39*

message PDS263I *68*

message PDS463W *81*

message PDS533W *83*

DUP

message PDS051I *27*

message PDS072I *32*

message PDS075I *32*

message PDS174I *42*

message PDS276I *70*

message PDS443W *79*

message PDS444W *79*

message PDS461W *80*

message PDS462W *80*

message PDS465W *81*

message PDS750E *94*

message PDS751E *94*

message PDS780E *96*

message PDS835E *101*

message PDS852E *105*

message PDS853E *105*

message PDS856E *106*

message PDS857E *107*

message PDS885E *126*

message PDS894E *130*

message PDS895E *130*

message PDS901E *130*

message PDS961E *132*

message PDS963E *138*

message PDS994E *144*

message PDS996E *145*

duplicate member

message PDS560W *85*

message PDS726E *95*

message PDS824E *99*

DVOL

message PDS859E *122*

E

EDIT

message PDS100I *37*

message PDS533W *83*

message PDS590W *86*

message PDS702E *90*

message PDS731E *94*

message PDS734E *94*

message PDS850E *105*

message PDS851E *105*

message PDS853E *105*

message PDS854E *106*

message PDS858E *121*

message PDS862E *122*

message PDS901E *130*

message PDS945E *132*

message PDS961E *132*

message PDS963E *138*

message PDS981E *140*

message PDS986E *140*

message PDS994E *144*

message PDS997E *145*

return codes *141*

EXCP

message PDS892E *127*

message PDS893E *129*

message PDS896E *130*

message PDS897E *130*

return codes *26*

EXEC

message PDS859E *122*

Extended help *7, 82*

F

FIND

message PDS005I *21*

message PDS140I *39*

message PDS141I *40*

message PDS142I	40	message PDS388A	77
message PDS146I	40	message PDS389A	77
message PDS147I	40	message PDS392A	77
message PDS148I	41	message PDS397A	78
message PDS149I	41	message PDS398A	78
message PDS165I	41	message PDS399A	78
message PDS193I	46	message PDS451W	80
message PDS380A	75	message PDS452W	80
message PDS384A	76	message PDS482W	82
message PDS551W	84	message PDS541W	84
message PDS556W	85	message PDS542W	84
message PDS703E	91	message PDS560W	85
message PDS704E	91	message PDS577W	86
message PDS740E	94	message PDS690E	89
message PDS770E	95	message PDS691E	89
message PDS840E	103	message PDS692E	89
message PDS841E	103	message PDS693E	89
message PDS842E	103	message PDS694E	90
message PDS853E	105	message PDS695E	90
message PDS857E	107	message PDS696E	90
message PDS858E	121	message PDS697E	90
message PDS869E	123	message PDS698E	90
message PDS901E	130	message PDS750E	94
message PDS961E	132	message PDS751E	94
message PDS963E	138	message PDS752E	94
message PDS985E	140	message PDS761E	94
message PDS994E	144	message PDS762E	95
FINDMOD		message PDS790E	97
message PDS293I	72	message PDS829E	101
message PDS294I	72	message PDS831E	101
message PDS295I	72	message PDS832E	101
message PDS296I	72	message PDS833E	101
message PDS297I	72	message PDS837E	102
message PDS450W	80	message PDS838E	102
message PDS780E	96	message PDS839E	103
FIXPDS		message PDS848E	105
message PDS050I	27	message PDS849E	105
message PDS051I	27	message PDS850E	105
message PDS274I	70	message PDS855E	106
message PDS387A	76	message PDS856E	106

message PDS862E *122*
 message PDS870E *124*
 message PDS871E *124*
 message PDS911E *131*
 message PDS941E *132*
 message PDS942E *132*
 message PDS943E *132*
 message PDS944E *132*
 message PDS945E *132*
 message PDS975E *139*
 message PDS992E *143*

G

getting support *6*

H

HELP

message PDS859E *122*

HISTORY

message PDS060I *29*
 message PDS061I *29*
 message PDS062I *30*
 message PDS064I *31*
 message PDS067I *31*
 message PDS068I *32*
 message PDS147I *40*
 message PDS148I *41*
 message PDS165I *41*
 message PDS193I *46*
 message PDS230I *55*
 message PDS250I *59*
 message PDS251I *61*
 message PDS255I *62*
 message PDS260I *63*
 message PDS460W *80*
 message PDS500W *82*
 message PDS502W *82*
 message PDS503W *82*

message PDS553W *84*
 message PDS556W *85*
 message PDS703E *91*
 message PDS704E *91*
 message PDS740E *94*
 message PDS853E *105*
 message PDS857E *107*
 message PDS858E *121*
 with SYSMOD *30*
 with TRANS *29*
 with USERDATA *30*
 with ZAP *29*

I

I/O error

in directory *102*
 permanent *143*
 SYNAD *143, 144*

IBM *8*

IDCAMS

message PDS837E *102*
 message PDS971E *139*

IDR data

Translator *29*
 USERDATA *30*
 ZAP *30*

IEBCOPY *22, 82, 83, 123, 124, 140*

IF

message PDS147I *40*
 message PDS148I *41*
 message PDS165I *41*
 message PDS193I *46*
 message PDS382A *76*
 message PDS383A *76*
 message PDS556W *85*
 message PDS701E *90*
 message PDS702E *90*
 message PDS703E *91*
 message PDS715E *92*

message PDS740E *94*
 message PDS840E *103*
 message PDS841E *103*
 message PDS850E *105*
 message PDS853E *105*
 message PDS857E *107*
 message PDS858E *121*
 message PDS985E *140*
 Information(I) *21*
 Initialization message PDS100I *37*
 input
 after end of file *124*
 directory record *125*
 extent initialization *143*
 I/O error *143*
 no directory blocks *125*
 read multiple *127, 129*
 ISPF
 message PDS731E *94*
 message PDS997E *145*
 ISPMODE
 message PDS731E *94*
 message PDS997E *145*
 ISPXEQ
 message PDS731E *94*

L

LIBDEF
 message PDS730E *93*
 LIST
 message PDS005I *21*
 message PDS140I *39*
 message PDS141I *40*
 message PDS142I *40*
 message PDS384A *76*
 message PDS703E *91*
 message PDS704E *91*
 message PDS740E *94*
 message PDS840E *103*

message PDS841E *103*
 message PDS853E *105*
 message PDS857E *107*
 message PDS858E *121*
 message PDS869E *123*
 message PDS901E *130*
 message PDS961E *132*
 message PDS963E *138*
 message PDS985E *140*
 LISTF
 message PDS891E *126*
 LLA
 message PDS073I *32*
 message PDS074I *32*
 message PDS187I *46*
 message PDS188I *46*
 message PDS189I *46*
 message PDS223I *54*
 message PDS275I *70*
 message PDS299I *73*
 message PDS575W *86*
 message PDS576W *86*
 message PDS577W *86*
 message PDS673E *88*
 message PDS727E *93*
 message PDS728E *93*
 message PDS729E *93*
 message PDS995E *145*
 load library
 message PDS702E *90*
 Loop
 message PDS034I *25*
 message PDS470W *81*
 LSTAR
 message PDS864E *123*
 message PDS872E *124*
 message PDS873E *124*

M

MAP

message PDS021I *22*
 message PDS066I *31*
 message PDS103I *37*
 message PDS104I *37*
 message PDS147I *40*
 message PDS148I *41*
 message PDS165I *41*
 message PDS193I *46*
 message PDS270I *69*
 message PDS271I *69*
 message PDS272I *69*
 message PDS441W *79*
 message PDS442W *79*
 message PDS552W *84*
 message PDS556W *85*
 message PDS701E *90*
 message PDS703E *91*
 message PDS704E *91*
 message PDS740E *94*
 message PDS853E *105*
 message PDS857E *107*
 message PDS858E *121*
 member combination
 message PDS713E *92*
 member group
 default member *21*
 empty data set *92*
 initial *121*
 MEM= keyword *75*
 nullified *84, 92*
 with DELETE *41*
 member pattern
 message PDS712E *91*
 member range
 message PDS700W *90*
 message PDS711E *91*
 MEMBERS

message PDS002I *21*
 message PDS165I *41*
 message PDS193I *46*
 message PDS853E *105*
 message PDS858E *121*

MEMLIST

message PDS147I *40*
 message PDS148I *41*
 message PDS165I *41*
 message PDS193I *46*
 message PDS556W *85*
 message PDS715E *92*
 message PDS731E *94*
 message PDS840E *103*
 message PDS841E *103*
 message PDS985E *140*
 message PDS997E *145*

message

CSV003I *26, 47*
 CSV011I *146*
 CSV016I *146*
 CSV019I *102*
 CSV023I *122*
 CSV300I *99, 100*

Messages

Action (A) *75*
 Error (E) *9, 87*
 Warning (W) *79*

missing reference

message PDS442W *79*

N

not allowed

message PDS910E *131*
 message PDS920E *131*
 message PDS930E *131*

not authorized

message PDS022I *22*

NOT EDIT

conflict with TEST *125*
 NOT REUSABLE
 conflict with REENTRANT *125*
 null member *82*

O

OPEN
 message PDS976E *139*
 OPTIONS
 message PDS071I *32*
 orphan alias *122*
 OUTCOPY
 message PDS080I *33*
 message PDS780E *96*
 message PDS781E *96*
 message PDS853E *105*
 message PDS858E *121*
 OVERLAY conflicts *126*

P

page alignment *56, 93*
 parse errors *101*
 PARTREL
 return codes *103*
 PATTERN
 message PDS714E *92*
 PBROWSE
 message PDS100I *37*
 message PDS590W *86*
 message PDS853E *105*
 message PDS901E *130*
 message PDS961E *132*
 message PDS963E *138*
 message PDS981E *140*
 message PDS994E *144*
 PDSE data set
 message PDS706E *91*

message PDS996E *145*
 PDSEAUTH
 message PDS829E *101*
 message PDS837E *102*
 message PDS838E *102*
 message PDS839E *103*
 PDSMAN/MVS
 message PDS026I *23*
 message PDS230I *55*
 message PDS262I *68*
 message PDS452W *80*
 PEDIT
 message PDS100I *37*
 message PDS533W *83*
 message PDS590W *86*
 message PDS810E *97*
 message PDS851E *105*
 message PDS901E *130*
 message PDS945E *132*
 message PDS961E *132*
 message PDS963E *138*
 message PDS981E *140*
 message PDS994E *144*
 PGMDOC
 message PDS235I *57*
 message PDS859E *122*
 PLIB
 message PDS730E *93*
 PRINT
 message PDS853E *105*
 message PDS854E *106*
 message PDS858E *121*
 message PDS859E *122*
 Program object
 message PDS706E *91*
 message PDS996E *145*
 Prompt
 data set *76*
 Enter Option *75*
 message PDS300A *75*

message PDS380A *75*
 message PDS381A *76*
 message PDS382A *76*
 message PDS383A *76*
 message PDS384A *76*
 message PDS385A *76*
 message PDS386A *76*
 message PDS387A *76*
 message PDS388A *77*
 message PDS389A *77*
 message PDS390A *77*
 message PDS391A *77*
 message PDS392A *77*
 message PDS393A *77*
 message PDS394A *78*
 message PDS395A *78*
 message PDS396A *78*
 message PDS397A *78*
 message PDS398A *78*
 message PDS399A *78*

Q

QSAM

message PDS993E *143*

R

READ MULTIPLE

message PDS892E *127*
 message PDS893E *129*

READOBJ

message PDS278I *70*

READY mode

message PDS997E *145*

REENTRANT

conflict with NOT REUSABLE *125*

RENAME

message PDS065I *31*
 message PDS090I *34*

message PDS161I *41*
 message PDS391A *77*
 message PDS850E *105*
 message PDS852E *105*
 message PDS853E *105*
 message PDS856E *106*
 message PDS858E *121*
 message PDS862E *122*
 message PDS975E *139*

REPLACE

message PDS005I *21*
 message PDS140I *39*
 message PDS141I *40*
 message PDS142I *40*
 message PDS145I *40*
 message PDS146I *40*
 message PDS147I *40*
 message PDS148I *41*
 message PDS149I *41*
 message PDS165I *41*
 message PDS193I *46*
 message PDS246I *59*
 message PDS380A *75*
 message PDS384A *76*
 message PDS386A *76*
 message PDS551W *84*
 message PDS556W *85*
 message PDS703E *91*
 message PDS704E *91*
 message PDS740E *94*
 message PDS770E *95*
 message PDS772E *96*
 message PDS773E *96*
 message PDS774E *96*
 message PDS775E *96*
 message PDS840E *103*
 message PDS841E *103*
 message PDS842E *103*
 message PDS850E *105*
 message PDS853E *105*

message PDS855E	<i>106</i>	message PDS800E	<i>97</i>
message PDS856E	<i>106</i>	message PDS801E	<i>97</i>
message PDS857E	<i>107</i>	message PDS802E	<i>97</i>
message PDS858E	<i>121</i>	message PDS804E	<i>97</i>
message PDS862E	<i>122</i>	message PDS805E	<i>97</i>
message PDS869E	<i>123</i>	message PDS852E	<i>105</i>
message PDS901E	<i>130</i>	message PDS853E	<i>105</i>
message PDS961E	<i>132</i>	message PDS855E	<i>106</i>
message PDS963E	<i>138</i>	message PDS856E	<i>106</i>
message PDS975E	<i>139</i>	message PDS873E	<i>124</i>
message PDS985E	<i>140</i>	message PDS975E	<i>139</i>
message PDS994E	<i>144</i>	return codes	
message PDS996E	<i>145</i>	BINDER	<i>108</i>
REPRO		EDIT	<i>141</i>
message PDS051I	<i>27</i>	EXCP	<i>26</i>
message PDS276I	<i>70</i>	PARTREL	<i>103</i>
message PDS443W	<i>79</i>	REUSABLE	
message PDS444W	<i>79</i>	conflict with SCATTER	<i>125</i>
message PDS750E	<i>94</i>	REVIEW	
message PDS751E	<i>94</i>	message PDS859E	<i>122</i>
message PDS850E	<i>105</i>	RLD/CONTROL	
message PDS852E	<i>105</i>	count incorrect	<i>99, 100</i>
message PDS855E	<i>106</i>	count missing	<i>92</i>
message PDS856E	<i>106</i>	RMODE	
message PDS857E	<i>107</i>	conflicts	<i>125</i>
message PDS862E	<i>122</i>	inconsistent	<i>99</i>
message PDS871E	<i>124</i>	message PDS118I	<i>38</i>
message PDS885E	<i>126</i>	message PDS119I	<i>38</i>
message PDS975E	<i>139</i>	message PDS120I	<i>39</i>
message PDS996E	<i>145</i>	not changed	<i>93</i>
RESTORE		updated	<i>34</i>
message PDS064I	<i>31</i>	with OVERLAY	<i>126</i>
message PDS091I	<i>34</i>	RX	
message PDS101I	<i>37</i>	message PDS859E	<i>122</i>
message PDS144I	<i>40</i>		
message PDS164I	<i>41</i>	S	
message PDS190I	<i>46</i>	SCATTER	
message PDS390A	<i>77</i>	conflict with REUSABLE	<i>125</i>
message PDS703E	<i>91</i>	SEPARAT	
message PDS706E	<i>91</i>		

message PDS856E *106*
 SEPARATE
 message PDS051I *27*
 message PDS174I *42*
 message PDS290I *72*
 message PDS465W *81*
 message PDS780E *96*
 message PDS783E *96*
 sequence
 message PDS825E *100*
 SERENA *57, 103, 109, 130, 134, 138,*
 140, 143, 144
 SMPGEN
 message PDS279E *70*
 message PDS612E *87*
 message PDS620E *87*
 message PDS623E *87*
 message PDS624E *87*
 message PDS630E *88*
 message PDS631E *88*
 message PDS632E *88*
 message PDS633E *88*
 message PDS640E *88*
 message PDS641E *88*
 message PDS642E *88*
 message PDS704E *91*
 source library
 message PDS701E *90*
 source member
 statistics *55*
 SPFEDIT
 message PDS100I *37*
 message PDS533W *83*
 message PDS590W *86*
 message PDS731E *94*
 message PDS734E *94*
 message PDS850E *105*
 message PDS851E *105*
 message PDS945E *132*
 message PDS961E *132*
 message PDS963E *138*
 message PDS986E *140*
 message PDS994E *144*
 SSI
 message PDS025I *23*
 message PDS230I *55*
 message PDS232I *56*
 message PDS385A *76*
 STARTOOL *8*
 message PDS997E *145*
 STOW
 message PDS856E *106*
 SUBLIST
 message PDS165I *41*
 message PDS193I *46*
 message PDS556W *85*
 message PDS853E *105*
 message PDS858E *121*
 SUBMIT
 message PDS002I *21*
 message PDS395A *78*
 message PDS853E *105*
 message PDS858E *121*
 message PDS859E *122*
 support
 Serena *6*
 SVCMAP
 message PDS093I *35*
 message PDS094I *35*
 message PDS095I *36*
 message PDS808E *97*
 message PDS809E *97*
 SYNAD
 message PDS993E *143*
 message PDS994E *144*
 Syntax error
 message PDS844E *104*
 message PDS845E *105*

T

TEST

conflict with NOT EDIT *125*

TSO

message PDS859E *122*

message PDS874E *125*

message PDS910E *131*

TSOEDIT

message PDS850E *105*

message PDS852E *105*

message PDS854E *106*

message PDS859E *122*

message PDS862E *122*

TSOLIST

message PDS859E *122*

U

USAGE

message PDS121I *39*

message PDS181I *43*

message PDS182I *43*

message PDS183I *44*

message PDS184I *44*

message PDS185I *44*

message PDS186I *45*

message PDS191I *46*

message PDS195I *47*

message PDS196I *48*

message PDS197I *49*

message PDS222I *54*

message PDS223I *54*

message PDS224I *54*

message PDS225I *54*

message PDS226I *55*

message PDS227I *55*

message PDS228I *55*

message PDS263I *68*

message PDS291I *72*

message PDS292I *72*

message PDS298I *72*

message PDS463W *81*

message PDS533W *83*

V

VERIFY

message PDS005I *21*

message PDS006I *21*

message PDS110I *37*

message PDS111I *37*

message PDS112I *37*

message PDS113I *37*

message PDS114I *37*

message PDS115I *37*

message PDS116I *38*

message PDS117I *38*

message PDS118I *38*

message PDS119I *38*

message PDS140I *39*

message PDS165I *41*

message PDS193I *46*

message PDS482W *82*

message PDS510W *82*

message PDS557W *85*

message PDS714E *92*

message PDS806E *97*

message PDS811E *98*

message PDS812E *98*

message PDS813E *98*

message PDS814E *98*

message PDS820E *98*

message PDS821E *99*

message PDS822E *99*

message PDS823E *99*

message PDS824E *99*

message PDS825E *100*

message PDS826E *100*

message PDS827E *100*

message PDS850E *105*

message PDS851E *105*
 message PDS853E *105*
 message PDS855E *106*
 message PDS856E *106*
 message PDS858E *121*
 message PDS860E *122*
 message PDS861E *122*
 message PDS862E *122*
 message PDS863E *122*
 message PDS864E *123*
 message PDS867E *123*
 message PDS870E *124*
 message PDS871E *124*
 message PDS872E *124*
 message PDS873E *124*
 message PDS875E *125*
 message PDS880E *125*
 message PDS881E *125*
 message PDS882E *125*
 message PDS883E *125*
 message PDS884E *126*
 message PDS901E *130*
 message PDS961E *132*
 message PDS962E *138*
 message PDS963E *138*
 message PDS975E *139*
 message PDS994E *144*
 message PDS998E *146*
 VMAP
 message PDS891E *126*
 VOLSET
 message PDS410W *79*
 message PDS412W *79*
 VPRINT
 message PDS859E *122*
 VSAM
 message PDS994E *144*
 VTOC
 message PDS859E *122*
 VUSE

message PDS082I *33*
 message PDS084I *33*
 message PDS085I *33*
 message PDS086I *33*
 message PDS087I *34*
 message PDS088I *34*
 message PDS096I *36*
 message PDS680E *88*
 message PDS681E *89*
 message PDS683E *89*
 message PDS684E *89*
 message PDS685E *89*
 message PDS686E *89*

W

weak reference
 message PDS441W *79*
 WHOHAS
 message PDS291I *72*
 message PDS292I *72*

X

XREF
 message PDS147I *40*
 message PDS148I *41*
 message PDS166I *41*
 message PDS168I *41*
 message PDS169I *41*
 message PDS172I *42*
 message PDS540W *84*
 message PDS552W *84*
 message PDS701E *90*
 message PDS704E *91*
 message PDS857E *107*

Z

ZAP

message PDS857E *107*
message PDS975E *139*
message PDS996E *145*

