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## Introduction

**FSI-PDS/MANAGER**, hereafter just PDS/MANAGER, is a high-speed batch editor designed for use by technical personnel to access data on Partitioned Datasets (PDS). Users can search, examine, change, copy, print or dump the contents of any Partitioned Dataset. A user may search a PDS and print or dump selected information, print an entire member, print lines of information showing the potential impact of a change, copy specified members or copy specific types of lines from a member. Members may be copied with or without changes. PDS/MANAGER will process any PDS with records of any length such as JCL, procedure libraries, parameter libraries and source code.

PDS/MANAGER helps users find and manipulate data on Partitioned Datasets. Users are permitted to search, examine, change, copy, print or dump the contents of any Partitioned Dataset for any type of data. A user can search a PDS and print or dump selected information, print an entire member, print "dry-runs" of proposed changes, perform mass changes, copy members or specific lines from a member with or without changes.

PDS/MANAGER automatically updates significant ISPF statistics for all new or replaced members. The statistics maintained include: version number, modification level number, date and time created/modified, user name, member size and number of records modified.

PDS/MANAGER processes any PDS with records of any length such as JCL, procedure libraries, parameter libraries and source code. PDS/MANAGER has an easy-to-use control syntax that allows its use by both technical and non-technical personnel.

## Features and Capabilities

PDS/MANAGER has the following features and capabilities:

- PDS/MANAGER can be used to print all or part of a Partitioned Dataset.
- PDS members can be selected either specifically or generically, by member name or by content.
- Users may search any or all positions of a record for any type of data, examine the record, and then change any or all positions of a record based on the results of the examination.
- ISPF statistics are automatically maintained providing an audit trail on all changes and adds.
- Security is provided by the installation of an optional password.

## Installation

FSI-PDS/MANAGER is shipped on a labeled tape or cartridge containing one dataset created by IEBCOPY containing the load module MBSRCH.

## Load Distribution Tape

Create the following JCL which will load the distribution tape to your Load Library

```
//JOBID      JOB (accounting) ,  
//          CLASS=A,MSGCLASS=*,MSGLEVEL=(1,1)  
//IEBCOPY EXEC PGM=IEBCOPY  
//SYSPRINT  DD SYSOUT=*  
//TAPEF1    DD DSN=FSIPDS.LOADLIB,UNIT=TAPE,DISP=OLD,  
//          LABEL=(1,SL),VOL=(,RETAIN,SER=FSIPDS)  
//LOADLIB   DD DSN=your.loadlib,DISP=SHR  
//SYSIN     DD *  
           COPY I=((TAPEF1,R),O=LOADLIB  
/*  
//
```

**Standard Function Install Modifications**

Some product standard functions can be modified by 'zaps' at installation time.

FSI-PDS/MANAGER automatically updates significant ISPF statistics for all new or replaced members. These statistics include: version and modification level numbers, date/time created or replaced, user name, member size, and number of records modified. This capability can be turned off.

Two passwords are available to control access to PDS functions. One password controls ADD/REPLACE capability, and the other controls COPY capability. Without change, these functions are not secured. If the password option is implemented, then one of the PASSWORDs specified in the zaps below must be included in the run Option Statements.

A table called the Literal Pool can be expanded in size. The default is 400K, but can be expanded to 999K (or reduced). 1K will handle 100 entries, so the 400K default will handle about 40,000 members in a run, so should normally be quite adequate.

Sample Job Control to update a FSI-PDS/MANAGER option default value by zap follows:

```
//JOBNAME JOB ...
// EXEC PGM=AMASPZAP
//SYSLIB DD DSN=loadlibname,DISP=SHR
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
NAME MBSRCH MBSRCH
VER offset hexvalue
REP offset hexvalue
/*
```

'loadlibname' refers to the PDS library containing the MBSRCH load module.

The VER and REP offsets (always the same) and the hexvalues are shown in the table below. See the Option Parameters section for explanation of the individual parameter functions.

Parameter	Normal Default	offset	VER hexvalue	REP hexvalue
ISPF Statistics Update	Yes	0048	E8	D5
Add/Replace Password	None	0054	4040404040404040	hex for password
Copy Password	None	005F	4040404040404040	hex for password
Literal Pool Size	400K	005C	F4F0F0	FxFxFx

The E8 value (ISPF statistics) is the character 'Y' in hexadecimal, and the D5 value is the character 'N'.

The Password values must be hexadecimal representation of keyboard characters, since they must be entered in a job stream. For example, if PASSWORD=XAYDZD were to be used, the REP value would be E7C1E8C4E9C4. The Add/Replace and Copy passwords can be the same.

'x' in REP value for Literal Pool is any decimal digit, so that FxFxFx is a hexadecimal value for a character number, e.g., F8F5F0 would change the default value to 850 (K).

## **How FSI-PDS/MANAGER Works**

PDS/MANAGER is divided into four phases: scanning, selection, copy and reporting.

1. The Scanning phase edits and builds the users control statements for later usage.
2. The Selection phase includes and/or excludes members by specific and/or generic member names or record content.
3. The Copy phase copies one or more records and/or members to the output dataset.
4. The Reporting phase prints or dumps selected records and/or members on the SYSOUT dataset.

## Control Statements

PDS/MANAGER contains four types of Control Statements:

**Function Commands:** The PRINT, DUMP, COPY, REPLACE, and ADD functions tell PDS/MANAGER what operation(s) to perform.

**Option Statements:** The option statements provide PDS/MANAGER with additional control information that controls the outcome of the PDS/MANAGER batch process.

**Selection Keywords:** The Selection Keywords tell PDS/MANAGER what members and data to select or exclude.

**Change Keyword:** The CHANGE= parameter allows selected records to be changed.

## Control Statement Coding Rules

PDS/MANAGER's Control Statement syntax provides for the simplified use of commas, blanks and equal signs.

1. All parameters and subparameters are free form;
2. Blanks are used to separate parameters and subparameters.
3. An equal sign indicates that a sub-parameter follows;
4. A one through eight character, numeric sequence number on the right end of the record, that is right justified and preceded by a space is ignored;
5. Subparameters may be enclosed in quotes.
6. A single quote in a text string is represented by coding two single quotes in succession (e.g., 'it's' would represent it's).
7. Subparameters may be entered in hexadecimal form, (e.g.: CHANGE= X'AA0B' X'BBF0').
8. Comments may be included by coding an \* in column 1. The rest of the statement is ignored.

## Function Commands

The Function Commands direct PDS/MANAGER to copy and/or print selected records and/or members. The syntax of the Function Commands follows:

```
[PRINT]
[NOPRINT]
[DUMP]
[COPY]
[REPLACE]
[ADD]
```

### **PRINT**

The PRINT keyword directs PDS/MANAGER to print selected records or members.

The PRINT keyword combined with the ONLY keyword directs PDS/MANAGER to print only the selected records. If the ONLY keyword is not specified then the entire member is printed. The PRINT function can be specified with or without the COPY, REPLACE or ADD function. If a Function Command is not specified, then the PRINT function is used by default. If both PRINT and DUMP are specified in the same run, the DUMP function overrides the PRINT function.

### **NOPRINT**

If no PRINT or DUMP command is specified, records with changes or that overflow still print. The NOPRINT option suppresses all the printing including the printing of changed or overflowed records.

### **DUMP**

The DUMP Command directs PDS/MANAGER to DUMP selected records or members in combined character and hexadecimal form.

The DUMP Command combined with the ONLY= keyword directs PDS/MANAGER to DUMP only the selected records. If the ONLY keyword is not specified then the entire member is DUMPed. The DUMP function can be specified with or without the COPY, REPLACE or ADD function. If both DUMP and PRINT are specified in the same run, the DUMP function overrides the PRINT function.

### **COPY**

The COPY Command directs PDS/MANAGER to copy each selected member to the sequential SYSUT2 dataset.

Each selected member may be preceded with the text specified by the HDR keyword. This is especially useful for making backups in Panvalet or IEBUPDT format.

### **REPLACE**

The REPLACE Command directs PDS/MANAGER to write each selected member to the SYSUT2 Partitioned Dataset.

If the member exists on the SYSUT2 dataset, it is replaced. If the member does not exist on the SYSUT2 dataset, it is added. Any user data found in the SYSUT1 directory entry for each member is copied to the SYSUT2 directory entry. The dataset specified by the SYSUT1 and SYSUT2 DD statements can be the same dataset.

### **ADD**

The ADD Command directs PDS/MANAGER to write each selected member to the SYSUT2 Partitioned Dataset.

The member is written only if the member does not exist on the SYSUT2 data set. Any user data found in the SYSUT1 directory entry for each member is copied to the SYSUT2 directory entry. The datasets specified by the SYSUT1 and SYSUT2 DD statements must be different datasets.

**Note:** When using the ADD and REPLACE Commands, SYSUT2 should have a disposition of NEW or OLD to assure exclusive control and prevent directory corruption by other jobs.

**Note:** Load Modules copied with the ADD and REPLACE commands may not be executable. This is due to functions involving RLD counts that only IEBCOPY handles and PDS/MANAGER can't. To make the copied members executable, run IEBCOPY with an ALTERMOD statement against the copied members. This makes the necessary changes to the RLD counts.

The following is an example of the required statement:

```
[label] ALTERMOD OUTDD=ddname [,LIST=NO]
```

For additional information on the ALTERMOD statement see the Utilities Manual, IEBCOPY program, ALTERMOD Statement.

## Option Statements

The Option Statements provide PDS/MANAGER with additional parameters to control the outcome of the PDS/MANAGER process. The syntax of the Option Statements follows:

```
[COLS=begin-end]
[SEP=option]
[PAGE=n]
[HDR='text']
[PASSWORD=xxxxxxxx]
```

### **COLS=**

The COLS keyword defines the beginning and ending positions of the records that are to be searched and/or changed.

The 'begin' value sets the starting position for the SELECT, ONLY and CHANGE searches. The 'end' value sets the ending position for searches. The ending position corresponds to the right end of the literal in the right-most compare.

If a COLS= parameter is coded before all SELECT, CHANGE, SKIP and ONLY parameters, it applies to all unmodified SELECT, CHANGE, SKIP and ONLY parameters that follow.

Any COLS= parameter that follows a SELECT, CHANGE, SKIP or ONLY parameter modifies the 'begin' and 'end' columns for only the preceding SELECT, CHANGE, SKIP or ONLY.

The 'end' column can be the word 'END' to specify the end of the record. The separating character between 'begin' and 'end' can be either a comma (,) or a dash (-).

Example of use:

```
COLS=1-30 or COLS=30,END
```

The program default is COLS=1-END.

### **SEP=**

The SEP keyword defines the type of separation needed between printed members.

Specifying 'SEP=TOP' or 'SEP=PAGE' causes each new member to print at the top of a new page.

Specifying 'SEP=' with a numeric value causes PDS/MANAGER to place that number of lines between each member on the listing. The only numeric values allowed are '0', '1' or '2'. Specifying 'SEP=2' causes triple spacing between members. The program default is SEP=2.

### **PAGE=**

The PAGE keyword sets the lines per page to the value 'nnn'.

'nnn' must specify a numeric value in the range of 3 through 999. The default number of lines per page is sixty (60).

**HDR=**

The HDR keyword defines the text of the record that is to precede each member when the COPY function is requested.

The text following 'HDR=' must be enclosed in single quotes ('). The text string '&MEMBER' has special meaning to PDS/MANAGER when found between the single quotes of the HDR keyword. PDS/MANAGER replaces the text '&MEMBER' with the member name of the member being processed.

Example of use:

```
HDR='++ADD &MEMBER,COBOL'
```

HDR="" suppresses writing the HDR record. The default for the HDR keyword is HDR='./ ADD NAME=&MEMBER'.

**PASSWORD=**

Two passwords are available to control access to PDS/MANAGER functions. One password controls access to the ADD/REPLACE functions, and the other controls access to the COPY functions.

To execute PDS/MANAGER using the password security option, the user must include in his PDS/MANAGER parameter string, the following parameter:

```
PASSWORD=XXXXXXXX
```

XXXXXXXX is either the current ADD/REPLACE password or the current COPY password.

Whether or not passwords are required, and what password values are, is controlled by product install process.

## Selection Keywords

PDS/MANAGER processes keywords to control the output written to the SYSUT2 and the SYSPRINT datasets. The MEMBERS= and SELECT= keywords allow the user to select specified members. The ONLY= and SKIP= keywords allow the user to select or skip specific records.

The syntax of the Selection keywords follows:

```
MEMBERS= member1 member2.....  
INCLUDE= text1 text2.....  
EXCLUDE= text1 text2.....  
ONLY= text1 text2.....  
SKIP= text1 text2.....
```

### **MEMBERS=**

The MEMBERS= keyword directs PDS/MANAGER to select by name, the specific and/or generic members from the PDS specified by the SYSUT1 DD statement.

The member name can be enclosed in single quotes. Any number of member names can follow the MEMBERS= keyword. If the MEMBERS= keyword is not specified then all members are selected.

### **INCLUDE=**

The INCLUDE= keyword directs PDS/MANAGER to select, by record content, the members that contain one of the text strings that follow the INCLUDE= keyword.

Any number of text strings can follow the INCLUDE= keyword. The text string must be located between the 'begin and end' positions specified in the COLS= (see COLS= keyword). If MEMBERS= is also specified, INCLUDE= applies to the members selected by the MEMBERS= keyword.

For compatibility, the SELECT= keyword is still supported and has the same effect as the INCLUDE= keyword.

**Note:** If both INCLUDE= and EXCLUDE= keywords are present, and the member contains data that matches both the INCLUDE= and the EXCLUDE= text, the member is excluded.

### **EXCLUDE=**

The EXCLUDE= keyword directs PDS/MANAGER to exclude, by record content, the members that contain one of the text strings that follow the EXCLUDE= keyword.

Any number of text strings can follow the EXCLUDE= keyword. The text string must be located between the 'begin and end' positions specified in the COLS= (see COLS= keyword). If MEMBERS= is also specified, EXCLUDE= applies to the members selected by the MEMBERS= keyword.

**Note:** If both INCLUDE= and EXCLUDE= keywords are present, and the member contains data that matches both the INCLUDE= and the EXCLUDE= text, the member is excluded.

**ONLY=**

The ONLY= keyword directs PDS/MANAGER to select only the records that contain the specified 'text' string(s).

The 'text' string must be located between the 'begin and end' positions specified in the COLS= (see COLS= keyword). Any number of text strings can follow the ONLY= keyword. If the ONLY= keyword is not specified then all records are selected.

The ONLY= keyword may be used only with the PRINT or DUMP commands.

**SKIP=**

The SKIP= keyword directs PDS/MANAGER to skip all of the records that contain any of the text strings that follow the SKIP= keyword.

The text string must be located between the 'begin and end' positions specified in the COLS= (see COLS= keyword). Any number of text strings can follow the SKIP= keyword. If not specified, no records are skipped. If the ONLY= keyword is also specified, the SKIP= keyword applies only to records that are selected by the ONLY= keywords.

Example:

```
REPLACE SKIP= ABC XYX
```

This would cause all records containing the character string 'ABC' or 'XYZ' to be skipped and not replaced on the destination PDS. All other members would be ignored, and, in effect, set to blanks.

## Change Keyword

PDS/MANAGER uses the CHANGE= keyword to modify the output written to the SYSUT2 and the SYSPRINT datasets. The CHANGE= keyword allows selected records to be changed.

The syntax of the CHANGE= keyword follows:

CHANGE= from1 to1 from2 to2.....

### **CHANGE=**

The CHANGE= keyword directs PDS/MANAGER to change one or more text strings within the selected members to the specified values before writing the member to the SYSUT2 dataset.

The CHANGE= keyword is followed by one or more 'from' and 'to' literal pairs. PDS/MANAGER scans between the positions set by the COLS keyword for the occurrence of the 'from' literal. If the 'from' literal is found, PDS/MANAGER replaces the 'from' literal with the 'to' literal value and the remainder of the record is adjusted accordingly. Each occurrence of the 'from' data is changed.

Data found in locations beyond the ending position (as specified by the COLS= keyword) is not changed. If a change would force the data beyond the ending position, the record is not changed and the message 'OVERFLOW' is printed to the right of the record in error. If the 'to' data is shorter than the 'from' data, spaces are inserted in the front of the ending position, (see COLS=). The 'from' and 'to' literals can be enclosed in single quotes.

A literal can be erased by coding a null value in the 'to' data, (e.g.: CHANGE= ABC ").

## Keyword Processing Order

Processing of the Selection and Change= keywords previously described takes place in the following order:

**MEMBERS=** (select members by name)  
**INCLUDE=** (select members by content)  
**EXCLUDE=** (exclude members by content)  
**ONLY=** (select records by content)  
**SKIP=** (skip records by content)  
**CHANGE=** (change selected records)

## Control Statement Examples

The following examples show the syntax of some typical Control Statements.

**PRINT MEMBERS= GL100 GL150 ONLY= SYSOUT=A**

In the example above, the members whose names begin with 'GL100' or 'GL150' are selected and scanned for the text string 'SYSOUT=A'. All records that contain the text string 'SYSOUT=A' are printed on the SYSPRINT dataset.

The Member Selection Keywords can specify specific or generic member names. To obtain the desired results, the specific subparameters can be enclosed in quotes. For example, to select only the member 'GL100' and not any others that begin with 'GL100', the user would code 'GL100 '.

**PRINT ONLY= MBXR-CANCEL-CODE COLS=1-71**

In the example above, the 'ONLY=' statement causes the selection process to be limited to records containing the character string 'MBXR-CANCEL-CODE'.

**PRINT CHANGE= MBXR-CANCEL-CODE MBX-CANCEL-CDE**

In the example above, all members on the SYSUT1 dataset are printed. Before printing the members, the text string 'MBXR-CANCEL-CODE' is changed to 'MBX-CANCEL-CDE'. The change takes place only on the printed report. This permits the user to perform a 'dry-run' which allows him to see the impact of a change prior to actually making the change.

**COPY CHANGE= MBXR-CANCEL-CODE MBX-CANCEL-CDE**

In the example above, all members on the SYSUT1 dataset are copied to the SYSUT2 dataset. Before copying the members, the text string 'MBXR-CANCEL-CODE' is changed to 'MBX-CANCEL-CDE'.

## Job Control Language

The JCL needed to execute PDS/MANAGER is described in this chapter.

### Job Control Statements

The following is an example of the JCL needed to execute PDS/MANAGER, and an explanation of each JCL Statement.

```
//SRCHJOB      JOB .....  
//           EXEC   PGM=MBSRCH  
//SYSUT1      DD    DSN=input.pds.library,DISP=xxx  
//SYSUT2      DD    DSN=output.dataset,DISP=xxx  
//SYSPRINT    DD    SYSOUT=a  
//SYSIN       DD    *  
MBSRCH CONTROL STATEMENTS GO HERE  
/*
```

#### EXEC JCL Statement

The EXEC JCL statement has only one function in PDS/MANAGER. It is to execute the PDS/MANAGER program.

PDS/MANAGER needs a minimum of 512K or more of virtual storage in which to operate; if 512K or more is not the installation default, then the 'REGION' keyword must be coded on the EXEC statement or JOB control statement.

#### SYSIN JCL Statements

The SYSIN DD statement is used to provide control statements to PDS/MANAGER. The record format must be either fixed unblocked or fixed blocked, and the dataset organization must be either physical sequential or Partitioned. If a member of a PDS is used as input to PDS/MANAGER, then the member name must be coded on the SYSIN DD statement. LRECL must be 80.

#### SYSPRINT JCL Statements

The SYSPRINT DD statement receives all printed output from the PDS/MANAGER execution. RECFM is fixed with ASA Control Characters. LRECL and BLKSIZE are 133. Report output is divided into several groups depending on the Keywords entered as follows:

1. All input parameters are printed.
2. MEMBERS= creates a list of all members selected by the MEMBERS= keyword. If MEMBERS= is not entered, a list of all members in the directory is printed.
3. INCLUDE= creates a list of all members selected by the INCLUDE= keyword. If INCLUDE= is not entered, no list is printed.
4. EXCLUDE= creates a list of all members excluded by the EXCLUDE= keyword. If EXCLUDE= is not entered, no list is printed.
5. PRINT & DUMP output. Each record is preceded by it's relative record number and up to 110

characters of data, continued to as many lines as necessary. DUMP output also contains zone and decimal lines below the character line and records are double spaced for readability. Each member is followed by a status line showing the member name, the number of records printed and the 'from' PDS name.

6. CHANGE= puts the word '\*\*CHANGED\*\*' to the right side of the printed record if the record is changed. If the change would cause overflow beyond the 'end' column, an 'OVERFLOW' message is printed and the record is not changed. Change and Overflow messages print even if PRINT or DUMP is not requested, unless NOPRINT is requested.
7. ADD causes an 'ADDED' status line to print including the member name, the number of records and the 'from' PDS name. If the member is already on the output PDS, a message is printed and the member is not added.
8. REPLACE causes an 'ADDED' or 'REPLACED' status record to print as described above depending on whether the member already existed on the SYSUT2 PDS. If CHANGE is also requested and SYSUT1 is the same PDS as specified by SYSUT2, the member is replaced only if a record is changed, otherwise a 'CHANGE NOT MADE' message is printed.
9. COPY causes a 'COPIED' status line to print including the member name, the number of records and the 'from' PDS name.
10. A final status line is printed showing the number of members processed. For ADD, REPLACE and COPY operations, the SYSUT2 dataset name is also printed.

#### **SYSUT1 JCL Statement**

The SYSUT1 DD statement defines the input PDS to be processed and is mandatory. The SYSUT1 DD statements must point to a PDS with a fixed, fixed/blocked, variable, variable/blocked or undefined record format and a logical record length not greater than 32,760 characters. The LRECL and BLKSIZE can contain any allowable values.

If the REPLACE function is specified, then SYSUT1 and SYSUT2 can point at the same PDS.

Partitioned Datasets specified in the SYSUT1 DD statement can be concatenated unless REPLACE is specified and SYSUT1 is the same dataset specified by SYSUT2. The IBM search macro used in PDS/MANAGER does not handle duplicate member names in different, concatenated PDS's. The search macro recognizes only the first occurrence of a set of duplicate member names. All other duplicate member names are ignored.

#### **SYSUT2 JCL Statement**

The SYSUT2 DD statement defines the output PDS or sequential dataset to be written and is optional. The SYSUT2 dataset is used only if the ADD, REPLACE or COPY function is requested. The SYSUT2 DD statements must point to either a PDS or sequential dataset with a fixed, fixed/blocked, variable, variable/blocked or undefined record format and a logical record length not greater than 32,760 characters. The LRECL and BLKSIZE can contain any allowable values. If the RECFM, LRECL and BLKSIZE are not specified on the SYSUT2 DD statement, they are copied from SYSUT1. The SYSUT2 DD statement cannot be concatenated.

If the COPY function is requested, SYSUT2 must point to a sequential dataset.

If the ADD or REPLACE functions are specified, then SYSUT2 must point to a PDS.

If the REPLACE function is specified, then the SYSUT2 DD statement can point to the same PDS as the SYSUT1 DD statement.

If RECFM=V or U and a CHANGE creates a larger record, the LRECL of that record is extended, if possible.

An existing PDS should always have a disposition of OLD to assure exclusive control and prevent other jobs from corrupting the directory. Spanned records are not supported.

## Sample Job Execution

The following is a sample of the JCL needed to execute PDS/MANAGER and an explanation of the job.

```
(1) //SRCH      JOB      .....
(2) //          EXEC    PGM=MBSRCH
(3) //SYSPRINT DD      SYSOUT=A
(4) //SYSUT1   DD      DSN=input.pds.library,DISP=xxx
(5) //SYSUT2   DD      DSN=output.pds.library,DISP=xxx
(6) //SYSIN    DD      *
(7) PRINT ADD
    CHANGE SYSOUT=* SYSOUT=A
    MEMBERS= MBX
/*
```

The following statements explain the preceding sample JCL that performs a print, change and copy of selected members:

1. All jobs require a JOB statement.
2. The PDS/MANAGER control program is executed.
3. The SYSPRINT DD statement defines the printer output dataset.
4. The SYSUT1 DD statement defines the PDS that contains the members to be selected.
5. The SYSUT2 DD statement defines the PDS that is to contain the members that are selected, changed and added.
6. The SYSIN DD statement defines the input to PDS/MANAGER.
7. The control statements direct PDS/MANAGER to print and add all members whose names begin with 'MBX'. The text string 'SYSOUT=\*' is changed to 'SYSOUT=A' in all selected members.

# Report Samples

The following are samples of the reports that PDS/MANAGER is capable of producing.

## Sample Member Print

The following example shows the member 'IEBGENER' printed in its entirety.

```

*****
----- PDS/MANAGER ----- REL. 2.1A          FANTOM SYSTEMS, INC.          NOV. 13, 1999  18.24  PAGE 01
-----INPUT PARAMETERS-----
      PRINT MEMBER= IEBGENER                                00140039
*****
----- PDS/MANAGER ----- REL. 2.1A          FANTOM SYSTEMS, INC.          NOV. 13, 1999  18.24  PAGE 01
-----MEMBER NAMES EXTRACTED-----
      IEBGENER
*****
----- PDS/MANAGER -----          MEMBER=IEBGENER  FILE=ISIRAB.TSO.CTLIIB          NOV. 13, 1999  18.24  PAGE 01
01 //ISIRABE  JOB (810101T),'GENER',CLASS=T,MSGCLASS=X,          00010042
02 //          REGION=2048K,NOTIFY=ISIRAB                        00020040
03 //          EXEC PGM=IEFBR14                                  00030040
04 //          DD DSN=ISIRAB.FTP,DISP=(OLD,DELETE)              00040043
05 //          DD DSN=ISIRAB.FTP,DISP=(OLD,DELETE)              00050043
06 //          EXEC PGM=IEBGENER,COND=(0,NE),REGION=4096K      00060040
07 //          DD DSN=IS .PROD.LNKLIB,DISP=SHR                 00070043
08 //          DD SYSOUT=*                                       00080043
09 //          DD DSN=ZFX110,VOL=SER=ZFX110,DISP=OLD,          00090043
10 //          UNIT=TAPE,LABEL=(2,BLP,EXPDT=98000),            00100043
11 //          DCB=(BLKSIZE=80,LRECL=80,RECFM=F)              00110043
12 //          DD DSN=ISIRAB.FTP,DISP=(,CATLG,DELETE),        00120043
13 //          UNIT=SYSDA,VOL=SER=TECH02,                      00130043
14 //          SPACE=(CYL,(1)),                                  00140043
15 //          DCB=(BLKSIZE=7200,LRECL=80,RECFM=FB)           00150043
16 //          DD DUMMY                                          00160043
17 //          DD DUMMY                                          00170037
-----
01 MEMBER(S) PRINTED
*****

```

### Sample Search and Trial Change Report

In the following example the user scans a PDS for all members starting with 'IE'. In each member located, any occurrence of the character string 'ISIRAB' is changed to 'ISIDJB'. The COLS= 10-60 limits the search for the character string 'ISIRAB' to positions 10-60. Note that when performing a CHANGE operation with a PRINT specified, the change is made only on paper. This permits you to see the potential impact of a change without actually making the change. To perform the actual change on the selected members, a COPY or REPLACE operation would have to be selected.

```

*****
----- PDS/MANAGER ----- REL. 2.1A          FANTOM SYSTEMS, INC.          NOV. 13, 1999  18.24  PAGE 01
INPUT PARAMETERS

PRINT MEMBERS= IE  CHANGE= ISIRAB ISIDJB  COLS= 10-60
*****
----- PDS/MANAGER ----- REL. 2.1A          FANTOM SYSTEMS, INC.          NOV. 13, 1999  18.24  PAGE 01
MEMBER NAMES EXTRACTED

IEAICSXX IEAIPSSX IEBCOMPR IEBCOPY  IEBGENER IEBUPDTE IEFBR14  IEHLIST  IEHPRGM
*****
----- PDS/MANAGER ----- MEMBER=IEBCOPY  FILE=ISIRAB.TSO.CTL LIB          NOV. 13, 1999  18.24  PAGE 01
01 //ISIDJBC JOB (240206M), 'DICK', CLASS=T,MSGCLASS=X,NOTIFY=ISIDJB          00010021          **CHANGED**
02 //S1 EXEC PGM=IEBCOPY,REGION=2048K          00020005
03 //IN DD DSN=SYS1.VSCLLIB,DISP=SHR          00030025
04 //OUT DD DSN=ISIDJB.TSO.LNKLIB,DISP=SHR          00040025          **CHANGED**
05 //SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,5)          00050005
06 //SYSPRINT DD SYSOUT=*          00070005
07 //SYSIN DD *          00080023
COPY INDD=IN,OUTDD=OUT          00090023

-- IEBCOPY **PRINTED** 07 RECORD(S) FROM ISIRAB.TSO.CTL LIB
-- IEBCOPY **REPLACED** 02 RECORD(S) FROM ISIRAB.TSO.CTL LIB

----- PDS/MANAGER ----- MEMBER=IEBGENER FILE=ISIRAB.TSO.CTL LIB
01 //ISIDJBE JOB (810101T), 'GENER', CLASS=T,MSGCLASS=X,          00010042          **CHANGED**
02 // REGION=2048K,NOTIFY=ISIDJB          00020040          **CHANGED**
03 // EXEC PGM=IEFBR14          00040043
04 //DD1 DD DSN=ISIDJB.FTP,DISP=(OLD,DELETE)          00050043          **CHANGED**
05 //S1 EXEC PGM=IEBGENER,COND=(0,NE),REGION=4096K          00070043
06 //STEPLIB DD DSN=IS.PROD.LNKLIB,DISP=SHR          00080043
07 //SYSPRINT DD SYSOUT=*          00090043
08 //SYSUT1 DD DSN=ZFX110,VOL=SER=ZFX110,DISP=OLD,          00100043
09 // DCB=(BLKSIZE=80,LRECL=80,RECFM=F)          00120043
10 //SYSUT2 DD DSN=ISIDJB.FTP,DISP=(,CATLG,DELETE),          00130043          **CHANGED**
11 // UNIT=SYSDA,VOL=SER=TECH02,          00140043
12 // DCB=(BLKSIZE=7200,LRECL=80,RECFM=FB)          00160043
13 //SYSIN DD DUMMY          00170037

-- IEBGENER **PRINTED** 13 RECORD(S) FROM ISIRAB.TSO.CTL LIB
-- IEBGENER **REPLACED** 04 RECORD(S) FROM ISIRAB.TSO.CTL LIB

----- 02 MEMBER(S) PRINTED
----- 02 MEMBER(S) WRITTEN
*****

```



## Error Messages

### Abend Codes

The user ABEND codes are listed below.

CODE	EXPLANATION
------	-------------

- |            |   |
|------------|---|
| <b>100</b> | <b>Control statements in error:</b><br>PDS/MANAGER prints the control statements on the SYSPRINT DD statement and places an asterisk (*) under the keyword in error.  |
| <b>200</b> | <b>Dataset open, I/O or STOW errors:</b><br>PDS/MANAGER encountered an open, I/O or STOW error while processing. See the accompanying error message for more details.   |
| <b>400</b> | <b>The literal pool size has been exceeded:</b><br>See your system programmer to permanently increase the size of the literal pool. The Installation Section contains instructions explaining how to permanently increase the size of the literal pool. |
| <b>600</b> | <b>FSI-PDS/MANAGER HAS EXPIRED</b><br>The PDS/MANAGER expiration date has been reached and PDS/MANAGER terminates processing.   |

## Report Messages

The messages that can appear on the report are listed below.

**membername action - 'nn' records FROM filename**

The indicated membername found in the filename was either **'\*\*ADDED\*\*'** or **'\*\*REPLACED\*\*'** on the output Partitioned Dataset or **'\*\*COPIED\*\*'** to the sequential output dataset and/or **'\*\*PRINTED\*\*'**.

**membername \*\*ALREADY ON FILE, NOT ADDED\*\***

The user specified the ADD function but the indicated membername was found on the output Partitioned Dataset and therefore was not added.

**\*\*CHANGED\*\***

The record to the left of the text **'\*\*CHANGED\*\*'** was changed by PDS/MANAGER.

**\*\*CHANGE NOT MADE, NOT REPLACED\*\***

REPLACE and CHANGE requested and SYSUT1 is the same PDS as specified by SYSUT2 and no records were changed.

**\*\*CHANGE NOT COMPLETED DUE TO OVERFLOW\*\***

CHANGE would have pushed characters beyond the 'ending' position in the record.

**nn MEMBERS WRITTEN TO filename**

PDS/MANAGER has written [nn] members to the output filename.

**nn MEMBERS PRINTED**

PDS/MANAGER has printed [nn] members.



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