

z/OS Basic Skills: Introduction to ISPF

Unit 3: Using the ISPF utilities Module 1: Using the ISPF library utility













Introduction

The ISPF utilities provide a variety of functions for library, data set, and catalog maintenance. In this module, *Using the ISPF library utility*, we'll explore a set of utilities that allow you to operate on members of a specific data set.

The library utility is intended primarily for maintaining partitioned data sets, but several of the functions also apply to sequential data sets.

Time to complete: 20 – 30 minutes

```
Menu Utilities Compilers Options
                           ISPF Primary Option Menu
  Settings
                 Terminal and user parameters
                                                         User ID . : SMCHUGH
  View
                 Display source data or listings
                                                         Time. . . : 15:04
  Edit
                 Create or change source data
                                                         Terminal: : 3278
  Utilities
                 Perform utility functions
                                                         Screen. . : 1
  Foreground
                 Interactive language processing
                                                         Language. : ENGLISH
   Batch
                 Submit job for language processing
                                                         Appl ID . : PDF
  Command
                 Enter TSO or Workstation commands
                                                         TSO logon : IKJACCT
  Dialog Test
                Perform dialog testing
                                                         TSO prefix: SMCHUGH
  IBM Products
                IBM program development products
                                                         System ID : SC76
10 SCLM
                 SW Configuration Library Manager
                                                         MVS acct. : ACCNT#
11 Workplace
                 ISPF Object/Action Workplace
                                                         Release . : ISPF 5.7
     Enter X to Terminate using log/list defaults
F1=Help
              F2=Split
                           F3=Exit
                                        F7=Backward F8=Forward
F10=Actions F12=Cancel
```



Objectives

Upon completion of this module, you should be able to:

- Access and use the ISPF library utility
- Select library utility options
- State which options operate on the whole data set and which options operate on data set members.



Accessing the Utility Selection Panel

When you select option 3 on the Primary Options Menu, the Utility Selection Panel appears. This panel typically gives you access to many different utility options. In the series of modules about ISPF utilities, we explore some of the most commonly used utilities:

- The library utilities
- The data set utilities
- The move/copy utility
- The dslist utility
- The compare and search utilities

```
Menu Help
                           Utility Selection Panel
Option ===>
1 Library
               Compress or print data set. Print index listing.
                 rename, delete, browse, edit or view members
  Data Set
               Allocate, rename, delete, catalog, uncatalog, or display
                 information of an entire data set
  Move/Copy
               Move, or copy members or data sets
  Dslist
               Print or display (to process) list of data set names.
                 Print or display VTOC information
  Reset
               Reset statistics for members of ISPF library
  Hardcopy
               Initiate hardcopy output
  Transfer
               Download ISPF Client/Server or Transfer data set
   Outlist
               Display, delete, or print held job output
               Create/change an application command table
   Commands
               Format definition for formatted data Edit/Browse
12 SuperC
               Compare data sets
                                                              (Standard Dialog)
13 SuperCE
               Compare data sets Extended
                                                              (Extended Dialog
14 Search-For Search data sets for strings of data
                                                              (Standard Dialog)
15 Search-ForE Search data sets for strings of data Extended (Extended Dialog)
                                        F7=Backward F8=Forward
F1=Help
              F2=Split
                           F3=Exit
F10=Actions F12=Cancel
                                                                          04/01
```



Starting the ISPF library utility

To access the library utility, select Option 1 on the Utility Selection Panel (shown here) and press the Enter key*. Alternatively, you can jump directly to the Library Utility Panel from the Primary Options Menu by entering 3.1 on the Primary Options Menu and pressing the Enter key*.

* The default Enter key for a Personal Communications (PCOMM) terminal emulator session is the right Ctrl key. If you are using a different terminal emulator, or your PCOMM keyboard has been customized, you may have a different Enter key.

```
Menu Help
                           Utility Selection Panel
1 Libraru
               Compress or print data set. Print index listing.
                 rename, delete, browse, edit or view members
2 Data Set
               Allocate, rename, delete, catalog, uncatalog, or display
                 information of an entire data set
  Move/Copy
               Move, or copy members or data sets
  Dslist
               Print or display (to process) list of data set names.
                 Print or display VTOC information
  Reset
               Reset statistics for members of ISPF library
   Hardcopy
               Initiate hardcopy output
               Download ISPF Client/Server or Transfer data set
   Outlist
               Display, delete, or print held job output
   Commands
               Create/change an application command table
11 Format
               Format definition for formatted data Edit/Browse
12 SuperC
               Compare data sets
                                                              (Standard Dialog
               Compare data sets Extended
                                                              (Extended Dialog
               Search data sets for strings of data
                                                              (Standard Dialog
15 Search-ForE Search data sets for strings of data Extended (Extended Dialog)
              F2=Split
                                        F7=Backward F8=Forward
F10=Actions F12=Cancel
                                                                          04/01
```



Exploring the ISPF Library Utility panel

The Library Utility panel, shown here, has several sections. Like most ISPF panels, this one has an action bar at the top. The options you can select on this panel are divided into two categories:

- Data set options function on an entire library or data set.
- Member options act on data set members.

The library section is similar to the library section on the View Entry Panel or the Edit Entry Panel, with the exception that it gives you the options of renaming a member, confirming the deletion of a member, and accessing an enhanced member list.

The other data set section should also be familiar to you from other panels.

```
Menu RefList Utilities Help
                               Library Utility
                 Data set options
                                                                    More:
blank Display member list
                                I Data set information
    C Compress data set
                               S Short data set information
    X Print index listing
                               E Edit member
                                                                P Print member
    L Print entire data set
                                    Enter "/" to select option
                 Library section
ISPF Libraru:
                                      Confirm Member Delete
                              (If B. D. E. P. R. V. or blank selected
                              (If R selected)
Other Partitioned or Sequential Data Set: Other data set section
                                  (If not cataloged)
   Volume Serial
 F1=Help
              F2=Split
                           F3=Exit
                                         F7=Backward F8=Forward
F10=Actions F12=Cancel
```



Exploring the ISPF Library Utility panel continued

The password section appears at the bottom of the panel (you may need to use F8 to scroll forward to see the bottom of the panel). Some data sets may be protected by a password, so that only authorized people have access to them. This is the field where you enter the password.

```
RefList Utilities Help
                               Library Utility
   C Compress data set
                               S Short data set information
   X Print index listing
                               E Edit member
   L Print entire data set
                               V View member
                                                                P Print member
                                   Enter "/" to select option
ISPF Library:
                                      Confirm Member Delete
  Project . . SMCHUGH
                                      Enhanced Member List
  Group . . . . <u>TEST</u>
                             (If B, D, E, P, R, V, or blank selected)
                             (If R selected)
Other Partitioned or Sequential Data Set:
  Data Set Name
                                 (If not cataloged)
  Volume Serial
                 Password section
                                     password protecte
F1=Help
             F2=Split
                           F3=Exit
                                        F7=Backward F8=Forward
                                                                   F9=Swap
F18=Actions F12=Cancel
                                                                          04/014
```



Library utility options for the whole library

You can use the following options on an entire data set:

- C compress a data set to recover space occupied by deleted or updated members
- X print an index list that shows general data set information and member names for a PDS.
- L print the entire data set formats the contents of a source data set for printing and records the output in an ISPF list data set.
- I display information about a data set on a direct access device
- S display the same information about a sequential data set as the I option. For a PDS, the S option displays less information.

```
<u>M</u>enu <u>R</u>efList <u>U</u>tilities <u>H</u>elp
                                Library Utility
blank Display member list
                                I Data set information
                                                                   B Browse membe
    C Compress data set
                                S Short data set information
    X Print index listing
                                E Edit member
    L Print entire data set
                                V View member
                                                                   P Print member
                                     Enter "/" to select option
 SPF Library:

∠ Confirm Member Delete

   Project . . SMCHUGH
                                       Enhanced Member List
                               (If B. D. E. P. R. V. or blank selected)
                               (If R selected)
Other Partitioned or Sequential Data Set:
   Data Set Name .
                                  (If not cataloged)
   Volume Serial . . .
 F1=Help
              F2=Split
                            F3=Exit
                                          F7=Backward F8=Forward
                                                                     F9=Swap
F10=Actions F12=Cancel
                                                                             04/014
```



An example of data set information

Here is an example of the type of data set information ISPF displays when you enter the I option on the Library Utility panel.

For a PDS, the S option would not display the number of maximum or used directory blocks, or the number of members.

```
Command ===>
Data Set Name . . . : SMCHUGH.TEST.COBOL
General Data
                                     Current Allocation
Volume serial . . . : BH6ST2
                                      Allocated blocks . : 102
Device tupe . . . : 3390
                                      Allocated extents . : 1
Organization . . . : PO
                                      Maximum dir. blocks : 10
Record format . . . : FB
Record length . . . : 80
Block size . . . : 27920
                                     Current Utilization
1st extent blocks . : 102
                                      Used blocks . . . . : 98
Secondary blocks . : 29
                                      Used extents . . . : 1
                                      Used dir. blocks . : 6
Creation date . . . : 2006/05/11
                                      Number of members . : 59
Referenced date . . : 2007/02/16
Expiration date . . : ***None***
F1=Help
             F2=Split
                          F3=Exit
                                       F7=Backward F8=Forward
                                                                 F9=Swap
F12=Cancel
                                                                        02/015
```



Library utility options for specific members

You can use the following options on a data set member:

- E edit the member
- V view the member
- B browse the member
- D delete the member
- R rename the member
- P print the member

```
Menu RefList Utilities Help
                              Library Utility
                                                                  More:
                              I Data set information
blank Display member list
                                                              B Browse member
   C Compress data set
                              S Short data set information
                                                              D Delete member
                              E Edit member
   X Print index listing
                                                              R Rename member
   L Print entire data set
                              V View member
                                                              P Print member
                                  Enter "/" to select option
ISPF Library:
                                  / Confirm Member Delete
  Project . . . SMCHUGH
                                    Enhanced Member List
  Group . . . . <u>TEST</u>
   Type . . . . COBOL
                            (If B. D. E. P. R. V. or blank selected)
                            (If R selected)
Other Partitioned or Sequential Data Set:
  Data Set Name . . .
  Volume Serial . . . (If not cataloged)
                          F3=Exit
                                       F7=Backward F8=Forward F9=Swap
F1=Help
             F2=Split
F10=Actions F12=Cancel
                                                                        04/014
```



Using the library utility - simulation

To work with a specific data set member:

- 1. Enter the option code on the Option line.
- Click on the Member field and type in the member name. For example, here we have typed a B for browse on the Option line and typed IGYIVP in the member field.
- Press the Enter (right Ctrl) key to open the member in a browse session.

To try a simulation of using the library utility, press the Launch button.

```
<u>M</u>enu <u>R</u>efList <u>U</u>tilities <u>H</u>elp
                               Library Utility
Option ===> B
blank Display member list
                               I Data set information
                                                                B Browse member
   C Compress data set
                               S Short data set information
   X Print index listing
                               E Edit member
                                                                R Rename member
   L Print entire data set
                               V View member
                                                                P Print member
                                   Enter "/" to select option
ISPF Library:
                                   Confirm Member Delete
  Project . . . SMCHUGH
                                      Enhanced Member List
  Group . . . . TEST
   Tupe . . . . C080L
  Member . . . IGYIVP
                             [If B, D, E, P, R, V, or blank selected]
                             (If R selected)
Other Partitioned or Sequential Data Set:
  Data Set Name . . .
  Volume Serial . . . (If not cataloged)
F1=Help
              F2=Split
                           F3=Exit
                                        F7=Backward F8=Forward
                                                                   F9=Swap
F10=Actions F12=Cancel
```



Summary

In this module, *Using the ISPF library utility*, you have learned:

- How to access the library utility
- Which options operate on entire data sets and which option operate on specific members
- How to specify options on the library utility panel
- How to specify options on the library list panel.