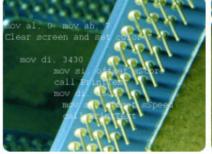


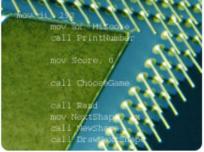
### z/OS Basic Skills: Introduction to ISPF

# Unit 3: Using the ISPF utilities Module 4: Using the ISPF dslist utility













### Using the ISPF dslist utility – Introduction

The ISPF utilities provide a variety of functions for library, data set, and catalog maintenance. In this module, *Using the ISPF dslist utility*, we'll explore a set of utilities that allow you to display or print lists of ISPF libraries, data sets, or volume table of contents (VTOC) information.

The data set list (dslist) utility is one of the most useful ISPF utilities. For example, use the dslist utility to create a scrollable list of all data sets with like high-level name qualifiers across all disk units to which you have access. You can then select from this list to browse, edit, delete, rename, and do other things with the data sets.

```
Menu RefList RefMode Utilities Help
                           Data Set List Utility
  blank Display data set list
                                            P Print data set list
      V Display VTOC information
                                           PV Print VTOC information
Enter one or both of the parameters below:
Data set list options
   Initial View . . . 1 1. Volume
                                        Enter "/" to select option
                                          Confirm Data Set Delete
                        Attrib
                                           Confirm Member Delete
                        4. Total
                                           Include Additional Qualifiers
                                           Display Catalog Name
When the data set list is displayed, enter either:
  "/" on the data set list command field for the command prompt pop-up,
    ISPF line command, the name of a TSO command, CLIST, or REXX exec. or
             F2=Split
                          F3=Exit
                                      F7=Backward F8=Forward F9=Swap
 l0=Actions F12=Cancel
                                                                        04/014
```

Time to complete: 20 – 30 minutes



## Using the ISPF dslist utility – Objectives

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

- Access and use the ISPF dslist utility
- Select dslist utility options
- Use the dslist utility to search for data sets
- Use the data set list actions
- Use commands from the dslist utility.



#### Using the ISPF dslist utility – 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

```
<u>M</u>enu <u>H</u>elp
                           Utilitu Selection Panel
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)
F1=Help
              F2=Split
                           F3=Exit
                                        F7=Backward F8=Forward
F10=Actions F12=Cancel
                                                                          04/01
```



#### Using the ISPF dslist utility – Starting the ISPF dslist utility

To access the dslist utility, select option 4 on the Utility Selection Panel (shown here) and press the Enter (right Ctrl) key\*.

Alternatively, you can jump directly from the Primary Option Menu to the dslist utility panel by entering 3.4 on the Primary Option Menu and pressing the Enter (right Ctrl) 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.

```
<u>H</u>elp
                           Utility Selection Panel
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
               Print or display (to process) list of data set names
                 Print or display VTOC information
               Reset statistics for members of ISPF library
  Reset
  Hardcopy
               Initiate hardcopy output
  Transfer
               Download ISPF Client/Server or Transfer data set
  Outlist
               Display, delete, or print held job output
  Commands
               Create/change an application command table
  Format
               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)
F1=Help
                           F3=Exit
                                        F7=Backward F8=Forward
             F2=Split
F10=Actions F12=Cancel
                                                                          04/019
```



#### Using the ISPF dslist utility—Exploring the ISPF dslist utility panel

The Dslist Utility panel has several sections. Like most ISPF panels, this one has an action bar at the top. The three sections on the panel shown here include:

- The data set list options section lists the options you type on the Option line to accomplish a task.
- The data set parameters section is where you specify a full or partial data set name as input to the list utility
- The data set view options section in which you select the initial view options and also select various processing options.

```
Menu RefList RefMode Utilities Help
                            Data Set List Utility
Option ===>
                      Data set list options
  blank Display data set list
                                             P Print data set list
      V Display VTOC information
                                            PV Print VTOC information
 nter one or both of the parameters below:
                                              Data set parameters
  Volume seria
Data set list options
  Initial View . . .

    Volume

                                         Enter "/" to select option
                         Space
                                            Confirm Data Set Delete
                           Attrib
                                            Confirm Member Delete
Data set view options
                         4. Total
                                            Include Additional Qualifiers
                                            Display Catalog Name
When the data set list is displayed, enter either:
 "/" on the data set list command field for the command prompt pop-up,
 an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
             F2=Split
                           F3=Exit
                                        F7=Backward F8=Forward
F10=Actions F12=Cancel
                                                                         04/01
```



#### Using the ISPF dslist utility— Exploring the ISPF dslist utility panel continued

Instructions on how to use the data set list utility appear at the bottom of the panel. Your options include:

- Type a slash (the symbol /) on the data set list command field to open the command prompt pop-up
- Use an ISPF line command
- Use a TSO command
- Run a CLIST or REXX exec
- Enter the equal sign (the symbol =) to repeat the previous command.

```
RefList RefMode Utilities Help
                            Data Set List Utility
      V Display VTOC information
                                            PV Print VTOC information
Enter one or both of the parameters below:
   Volume serial . . __
Data set list options
   Initial View . . . 1 1. Volume
                                         Enter "/" to select option
                         Space
                                            Confirm Data Set Delete
                         Attrib
                         Total
                                            Include Additional Qualifiers
                                            Display Catalog Name
When the data set list is displayed, enter either: <code>DSlistinstructions</code>
 "/" on the data set list command field for the command prompt pop-up,
 an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
  "=" to execute the previous command.
 LO=Actions F12=Cancel
                                                                          04/01
```



#### Using the ISPF dslist utility—Displaying a list of data sets

You can use the dslist utility to display a data set list in two ways:

- Leave the option line blank and enter a full or partial data set name level (Dsname Level) qualifier with or without a volume serial.
- Leave the option line blank and enter a volume serial.

In the first case, if you do not specify a volume serial number, ISPF does a catalog search to create the data set list.

In either case, if you enter a volume serial number, ISPF creates the data set list by searching the volume table of contents (VTOC).

To print instead of displaying the data set list, type P on the option line.

```
blank
                            Data Set List Utility
Option ===
  blank Display data set list
                                             P Print data set list
      V Display VTOC information
                                            PV Print VTOC information
Enter one or both of the parameters below:
  Dsname Level . .
  Volume serial
                                   Partial qualifier
Data set list options
   Initial View . . . 1 1. Volume
                                         Enter "/" to select option
                         Space
                                            Confirm Data Set Delete
                                            Confirm Member Delete

 Total

                                            Include Additional Qualifiers
                                            Display Catalog Name
When the data set list is displayed, enter either:
     on the data set list command field for the command prompt pop-up,
 an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
              F2=Split
                           F3=Exit
                                        F7=Backward F8=Forward
F10=Actions F12=Cancel
                                                                          10/03
```



#### Using the ISPF dslist utility – Specifying a partial data set name level qualifier

To filter a list of data sets, use the following wildcard symbols as part of a Dsname Level qualifier:

- An asterisk (the symbol \*) one asterisk by itself indicates that at least one qualifier needs to occupy the position. One asterisk within a qualifier indicates that zero or more characters can occupy that position. A double asterisk by itself indicates that zero or more qualifiers can occupy that position. It is not valid to use a double asterisk within a qualifier. For example,
  - SYS1.\* lists all data sets with SYS1 as the high-level qualifier and at least one other qualifier.
  - SYS1 or SYS1.\*\* lists all data sets with SYS1 as the first qualifier.
- \*\*.CLIST lists all data sets with a qualifier of CLIST that are in any of the catalogs to which you have access
- A percent sign (the symbol %) one percent sign indicates that any one single alphanumeric or national character can occupy the space. You can use up to eight percent signs as placeholders in a partial data set name level qualifier. For example,
- SYS% lists all data sets that start with SYS and include one other character, such as SYS1, SYS2, SYS\$, and so forth.
- SYS%% lists all data sets that start with SYS and include two other characters, such as SYS10, SYS11, SYS1\$, and so forth.

These wildcard symbols can also be used in a partial volume serial number.



# Using the ISPF dslist utility— Selecting the initial view for the data set list - simulation

You can select four different initial views for the data set list display:

- Volume which is shown here.
- Space
- Attribute
- Total

To try a simulation that shows all four views of the dslist, click on the Launch button.

```
Options View Utilities Compilers Help
DSLIST - Data Sets Matching SYS%. *
                                                                     Row 1 of 897
Command ===>
                                                                 Scroll ===> PAGE
Command - Enter "/" to select action
                                                        Message
                                                                           Volume
         SYSO. IPLPARM
                                                                           IODEPK
         SYSO. IPLPARM
                                                                           IODFPK
         SYS1.ADFMAC1
                                                                           Z18RA1
         SYS1.APPCSI
                                                                           *VSAM*
         SYS1.APPCSI.DATA
                                                                           BH6CAT
                                                                           BH6CA1
                                                                           *VSAM*
         SYS1.APPCTP.DATA
                                                                           BH6CAT
                                                                           BH6CA1
                                                                           Z18RA1
         SYS1.BAZ.SBAZPLIB
                                                                           Z18RA1
         SYS1.BRODCAST
                                                                           BH6CA1
         SYS1.CBRDBRM
                                                                           Z18RA1
            F2=Split F3=Exit
                                   F5=Rfind
                                               F7=Up
                                                          F8=Down
                                                                      F9=Sнар
           F11=Right F12=Cancel
                                                                            04/015
```



#### Using the ISPF dslist utility- Using line commands from the data set list

You can type line commands in the space to the left of the data set. Depending on your ISPF configuration, the following line commands may be available to you:

- I information
- S short information
- D delete
- R rename
- C catalog
- M member list
- P print
- X print index
- CO copy
- MO move

We discussed these commands in the modules entitled, *Using the ISPF data set utility* and *Using the move/copy utility*. Refer to these modules for additional information on these line commands.



#### Using the ISPF dslist utility— Accessing the action panel from the data set list

To access the action panel from the data set list, enter a slash (the symbol /) in the command field to the left of the data set you wish to work with, and press the Enter key.

To select an option on the Data Set List Actions panel, type the option number in the field to the left of number 1 and press the Enter key.

```
Data Set List Actions
                                                                    w 1 of 897
                                                                     ===> PAGE
                                                    More:
Data Set: SYS1.APPCSI.INDEX
                                                                        Volume
DSLIST Action
                                   14. Print Index
                                                                        IODFPK
        Edit
                                       Reset
                                                                        IODEPK
        Browse
                                       Move
                                                                        Z18RA1
        Member List
                                   17.
                                                                        *VSAM*
                                       Copu
        Delete
                                                                        BH6CAT
        Rename
                                                                        BHSCAT
        Info
                                       Unexclude NX
                                                                        *VSAM*
        Short Info
                                                                        BH6CAT
                                       Unexclude first
        Print
                                       Unexclude last 'NXL
                                                                        BHSCAT
    10. Catalog
                                                                        Z18RA1
        Uncatalog
                                                                        Z18RA1
       Compress
                                                                        Z18RA1
                                       Search-For
    13. Free
                                   26. Search-ForE
                                                                        Z18R61
 F1=Help
                F2=Split
                                 F3=Exit
                                                 F7=Backward
                                                                        BH6CAT
 F8=Forward
                F9=Swap
                                F12=Cancel
                                                                        Z18RA1
                                                                    9=Ѕнар
      F11=Right F12=Cancel
                                                                         08/006
```



#### Using the ISPF dslist utility- Using commands on the data set list panel

You can also issue a number of primary commands from the Data Set List panel, including:

- APPEND
- CONFIRM
- EXCLUDE
- FIND and RFIND
- LC
- LOCATE
- MEMBER
- REFRESH
- RESET
- SAVE
- SHOWCMD
- SORT
- SRCHFOR
- VA, VS, VT, VV

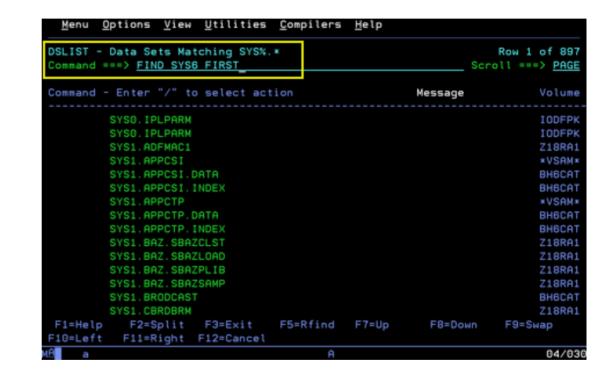
Options View Utilities Compilers DSLIST - Data Sets Matching SYS%.\* Command ===> FIND SYSB FIRST Command - Enter "/" to select action Message Volume IODEPK IODFPK Z18RA1 \*VSAM\* BHBCAT \*VSAM\* BH6CAT BHBCAT Z18RA1 Z18RA1 BH6CA1 Z18RA1 F1=Help F2=Split F3=Exit F5=Rfind F7=Up F9=Swap F11=Right F12=Cancel 04/036

Refer to ISPF help for explanations of these primary commands.



# Using the ISPF dslist utility— Selecting and editing data set list members - simulation

To try a simulation of using primary commands, action list commands and line commands to select and edit a data set member from the Data Set List panel, click the Launch button.





#### Using the ISPF dslist utility—Displaying a volume table of contents (VTOC)

You can also use the dslist utility to display or print the volume table of contents (VTOC) information. A VTOC contains general information about a specified direct access storage device (DASD) volume.

Type either V or PV on the option line, enter the volume serial and press the Enter key. The V option displays the VTOC information and the PV option prints the VTOC information. The Dsname Level is ignored when requesting VTOC information.

```
RefList RefMode Utilities Help
                            Data Set List Utility
Option ===> V
                                                                   More:
   blank Display data set list
                                             P Print data set list
      V Display VTOC information
                                            PV Print VTOC information
Enter one or both of the parameters below:
   Dsname Level .
   Volume serial . . BH6ST
Data set list options
   Initial View . . . 1
                                         Enter "/" to select option
                         Space
                                           Confirm Data Set Delete
                         3. Attrib
                                            Confirm Member Delete
                         4. Total
                                            Include Additional Qualifiers
                                            Display Catalog Name
When the data set list is displayed, enter either:
 "/" on the data set list command field for the command prompt pop-up,
 an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
F1=Help
             F2=Split
                          F3=Exit
                                       F7=Backward F8=Forward
F10=Actions F12=Cancel
                                                                         11/029
```



#### Using the ISPF dslist utility— A sample VTOC

An example of VTOC information is shown here. It contains general information about the volume, including the type of DASD, the number of tracks, the percent used and the amount of free space.

The VTOC information is the same whether you request that the information be displayed or printed. The printed version, however, also includes a page heading.

```
VTOC Summary Information
Volume : BH6CAT
Command ===>
Unit . . : 3390
                         VTOC Data
 Volume Data
                                                Free Space
 Tracks ::
              50 085
                         Tracks ::
                                                             22,012
 xUsed ::
                         %Used . . :
                                               Largest ::
                                                             18,345
 Trks/Cyls:
                  15
                         Free DSCBS:
                                         4.434 Free
                                                Extents :
 F1=Help
            F2=Split
                       F3=Exit
                                  F9=Swap
                                            F12=Cancel
                                           Confirm Member Delete
                                           Include Additional Qualifiers
                        4. Total
                                           Display Catalog Name
When the data set list is displayed, enter either:
     on the data set list command field for the command prompt pop-up,
 an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
                                       F7=Backward F8=Forward
F10=Actions F12=Cancel
                                                                        04/016
```



#### **Using the ISPF dslist utility – Summary**

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

- How to access the dslist utility
- How to use the dslist utility to search for and create a list of data sets
- How to select a data set to work with from the data set list
- How to use the data set action list and the member action list panels
- How to use primary and line commands in the data set utility
- How to display a VTOC.