



z/OS Basic Skills: Introduction to ISPF

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

```
di, 3444  
t, Score  
PrintNumber  
  
o, 219  
DrawShape  
  
ah, 1  
16h  
GetKey
```



```
xor di, di  
mov cx, 2000  
mov ax, 700h  
rep stosw  
  
call DrawBordere  
  
mov di, 184  
mov si, offset eNext  
call PrintText  
mov di, 272  
mov si, offset eHiScore  
call PrintText
```

```
mov al, 0- mov ah, 7  
Clear screen and set color 7  
  
mov di, 3430  
mov si, offset eStop  
call PrintText  
mov di, 480  
mov si, offset eSpeed  
call PrintText
```

```
mov di, 282  
mov ax, HiScore  
call PrintNumber  
  
mov Score, 0  
  
call ChooseGame  
  
call Rand  
mov NextShape, ax  
call NewShape  
call DrawNextShape
```



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.

Time to complete: 20 – 30 minutes

```

Menu  RefList  RefMode  Utilities  Help
-----
                                Data Set List Utility
Option ==> _____ 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 . . . _____

Data set list options
Initial View . . . 1
                   1. Volume      Enter "/" to select option
                   2. 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 F9=Swap
F10=Actions F12=Cancel

MFA a 04/014

```

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

```
Menu Help
Utility Selection Panel
Option ==>
1 Library Compress or print data set. Print index listing. Print,
rename, delete, browse, edit or view members
2 Data Set Allocate, rename, delete, catalog, uncatalog, or display
information of an entire data set
3 Move/Copy Move, or copy members or data sets
4 Dslist Print or display (to process) list of data set names.
Print or display VTOC information
5 Reset Reset statistics for members of ISPF library
6 Hardcopy Initiate hardcopy output
7 Transfer Download ISPF Client/Server or Transfer data set
8 Outlist Display, delete, or print held job output
9 Commands Create/change an application command table
11 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 F2=Split F3=Exit F7=Backward F8=Forward F9=Swap
F10=Actions F12=Cancel
MR a 04/014
```

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.

```
Menu Help
Utility Selection Panel
Option ==> 4
More: *
1 Library Compress or print data set. Print index listing. Print,
rename, delete, browse, edit or view members
2 Data Set Allocate, rename, delete, catalog, uncatalog, or display
information of an entire data set
3 Move/Copy Move, or copy members or data sets
4 Dslist Print or display (to process) list of data set names.
Print or display VTOC information
5 Reset Reset statistics for members of ISPF library
6 Hardcopy Initiate hardcopy output
7 Transfer Download ISPF Client/Server or Transfer data set
8 Outlist Display, delete, or print held job output
9 Commands Create/change an application command table
11 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 F2=Split F3=Exit F7=Backward F8=Forward F9=Swap
F10=Actions F12=Cancel
MR a 04/015
```

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 VTDC information           PV Print VTDC information
More: *
-----
Enter one or both of the parameters below:  Data set parameters
Dsname Level . . .
Volume serial . . .
-----
Data set list options
Initial View . . . 1
Data set view options
1. Volume          Enter "/" to select option
2. 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,
F1=Help   F2=Split   F3=Exit   F7=Backward F8=Forward F9=Swap
F10=Actions F12=Cancel
-----
MP a 04/014

```

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.

```

Menu RefList RefMode Utilities Help
-----
Data Set List Utility
Option ==> _____ More: -
          V Display VTOC information          PV Print VTOC information
Enter one or both of the parameters below:
Dsname Level . . . _____
Volume serial . . . _____
Data set list options
Initial View . . . 1 1. Volume          Enter "/" to select option
                   2. 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: Dslist instructions
"/" 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.
F1=Help      F2=Split    F3=Exit      F7=Backward  F8=Forward  F9=Swap
F10=Actions  F12=Cancel
MR a 04/014

```

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.

```

Menu RefList RefMode Utilities Help
blank Data Set List Utility
Option ==>
blank Display data set list P Print data set list More: +
V Display VTOC information PV Print VTOC information

Enter one or both of the parameters below:
Dsname Level . . . SYS%. *
Volume serial . . .
Data set list options
Initial View . . . 1 1. Volume Enter "/" to select option
2. 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 F9=Swap
F10=Actions F12=Cancel
  
```


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.

```

Menu Options View Utilities Compilers Help
-----
DSLIST - Data Sets Matching SYS%. *                               Row 1 of 897
Command ==> _____ Scroll ==> PAGE

Command - Enter "/" to select action                               Message                               Volume
-----
SYS0.IPLPARM                                                       IODFPK
SYS0.IPLPARM                                                       IODFPK
SYS1.ADFMAC1                                                       Z18RA1
SYS1.APPCSI                                                         *VSAM*
SYS1.APPCSI.DATA                                                   BH6CAT
SYS1.APPCSI.INDEX                                                  BH6CAT
SYS1.APPCTP                                                         *VSAM*
SYS1.APPCTP.DATA                                                   BH6CAT
SYS1.APPCTP.INDEX                                                  BH6CAT
SYS1.BAZ.SBAZCLST                                                  Z18RA1
SYS1.BAZ.SBAZLOAD                                                  Z18RA1
SYS1.BAZ.SBAZPLIB                                                  Z18RA1
SYS1.BAZ.SBAZSAMP                                                  Z18RA1
SYS1.BROADCAST                                                     BH6CAT
SYS1.CBRDBRM                                                       Z18RA1

F1=Help   F2=Split   F3=Exit   F5=Rfind   F7=Up     F8=Down   F9=Swap
F10=Left  F11=Right  F12=Cancel
MP a                                     A                                     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.

```

Menu  Options  View  Utilities  Compilers  Help
DSLIST - Data Sets Matching SMCHUGH.*                               Row 1 of 13
Command ==> _____ Scroll ==> PAGE

Command - Enter "/" to select action                               Message                               Volume
-----
SMCHUGH.BROADCAST                                                BH6ST2
SMCHUGH.DASD.LIST                                                BH6ST2
SMCHUGH.OUTPUT                                                  BH6ST2
SMCHUGH.SC76.ISPF42.ISPPROF                                       BH6ST2
SMCHUGH.SC76.SPFL0G1.LIST                                         BH6ST1
SMCHUGH.SC76.SPFTMP1.CNTL                                         BH6ST2
I _ SMCHUGH.TEST.COBOL                                           BH6ST2
SMCHUGH.TEST1.COBOL                                             BH6ST2
SMCHUGH.TEST2.COBOL                                             BH6ST2
SMCHUGH.TEST3.COBOL                                             BH6ST2
SMCHUGH.UTILITY.CNTL                                           BH6ST2
SMCHUGH.ZFS                                                      *VSAM*
SMCHUGH.ZFS.DATA                                                BH6ST1

***** End of Data Set list *****

F1=Help   F2=Split  F3=Exit   F5=Rfind  F7=Up     F8=Down   F9=Swap
F10=Left  F11=Right F12=Cancel

ME a 14/003
  
```

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.

```

Menu Options View Utilities Compilers Help
-----
D      Data Set List Actions
C
C      Data Set: SYS1.APPCSI.INDEX
C
C      DSLIST Action
-----
1. Edit          14. Print Index
2. View         15. Reset
3. Browse       16. Move
4. Member List  17. Copy
5. Delete       18. Refadd
6. Rename       19. Exclude
7. Info         20. Unexclude 'NX'
8. Short Info   21. Unexclude first 'NXF'
9. Print        22. Unexclude last 'NXL'
10. Catalog     23. SuperC 'SC'
11. Uncatalog   24. SuperCE 'SCE'
12. Compress    25. Search-For 'SF'
13. Free        26. Search-ForE 'SFE'

F1=Help      F2=Split      F3=Exit      F7=Backward
F8=Forward   F9=Swap       F12=Cancel

F10=Left     F11=Right    F12=Cancel
-----
w 1 of 897
==> PAGE
-----
Volume
-----
I0DFPK
I0DFPK
Z18RA1
*VSAM*
BH6CAT
BH6CAT
*VSAM*
BH6CAT
BH6CAT
Z18RA1
Z18RA1
Z18RA1
Z18RA1
BH6CAT
Z18RA1
9=Swap
-----
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

Refer to ISPF help for explanations of these primary commands.

```

Menu Options View Utilities Compilers Help
DSLIST - Data Sets Matching SYS%.*          Row 1 of 897
Command ***> FIND SYS6 FIRST_             Scroll ***> PAGE
-----
Command - Enter "/" to select action      Message          Volume
-----
      SYS0.IPLPARM                          IODFPK
      SYS0.IPLPARM                          IODFPK
      SYS1.ADFMAC1                          Z18RA1
      SYS1.APPCSI                           *VSAM*
      SYS1.APPCSI.DATA                      BH6CAT
      SYS1.APPCSI.INDEX                     BH6CAT
      SYS1.APPCTP                           *VSAM*
      SYS1.APPCTP.DATA                      BH6CAT
      SYS1.APPCTP.INDEX                     BH6CAT
      SYS1.BAZ.SBAZCLST                      Z18RA1
      SYS1.BAZ.SBAZLOAD                      Z18RA1
      SYS1.BAZ.SBAZPLIB                      Z18RA1
      SYS1.BAZ.SBAZSAMP                      Z18RA1
      SYS1.BROADCAST                         BH6CAT
      SYS1.CBRDBRM                          Z18RA1
-----
F1=Help   F2=Split  F3=Exit   F5=Rfind  F7=Up    F8=Down  F9=Swap
F10=Left  F11=Right F12=Cancel
MA a                                     A                                     04/036

```

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.

```

Menu Options View Utilities Compilers Help
DSLIST - Data Sets Matching SYS%.*          Row 1 of 897
Command ***> FIND SYS6 FIRST_             Scroll ***> PAGE
-----
Command - Enter "/" to select action      Message      Volume
-----
SYS0.IPLPARM                             IODFPK
SYS0.IPLPARM                             IODFPK
SYS1.ADFMAC1                             Z18RA1
SYS1.APPCSI                              *VSAM*
SYS1.APPCSI.DATA                        BH6CAT
SYS1.APPCSI.INDEX                       BH6CAT
SYS1.APPCTP                              *VSAM*
SYS1.APPCTP.DATA                        BH6CAT
SYS1.APPCTP.INDEX                       BH6CAT
SYS1.BAZ.SBAZCLST                        Z18RA1
SYS1.BAZ.SBAZLOAD                        Z18RA1
SYS1.BAZ.SBAZPLIB                        Z18RA1
SYS1.BAZ.SBAZSAMP                        Z18RA1
SYS1.BROADCAST                           BH6CAT
SYS1.CBRDBRM                             Z18RA1

F1=Help   F2=Split   F3=Exit   F5=Rfind   F7=Up     F8=Down   F9=Swap
F10=Left  F11=Right  F12=Cancel

MP a                                     A                                     04/036

```

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.

```

Menu  RefList  RefMode  Utilities  Help
-----
Data Set List Utility
Option ==> V
blank Display data set list          P Print data set list
V Display VTOC information           PV Print VTOC information
More: +
Enter one or both of the parameters below:
Dsname Level . . .
Volume serial . . . BH6ST
Data set list options
Initial View . . . 1  1. Volume      Enter "/" to select option
                    2. 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  F9=Swap
F10=Actions F12=Cancel
MR a
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.

```

Menu RefList RefMode Utilities Help
----- VTOC Summary Information -----
Volume . . : BH6CAT
Command ==> _____

Unit . . . : 3390

Volume Data          VTOC Data          Free Space   Tracks   Cyls
Tracks . . : 50,085   Tracks . . : 90   Size . . . : 22,012  1,466
%Used . . . : 56     %Used . . . : 2   Largest . . : 18,345  1,223
Trks/Cyls: 15     Free DSCBS: 4,434 Free
                                           Extents . . : 6

F1=Help  F2=Split  F3=Exit  F9=Swap  F12=Cancel

                                           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  F9=Swap
F10=Actions  F12=Cancel
MR a 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.