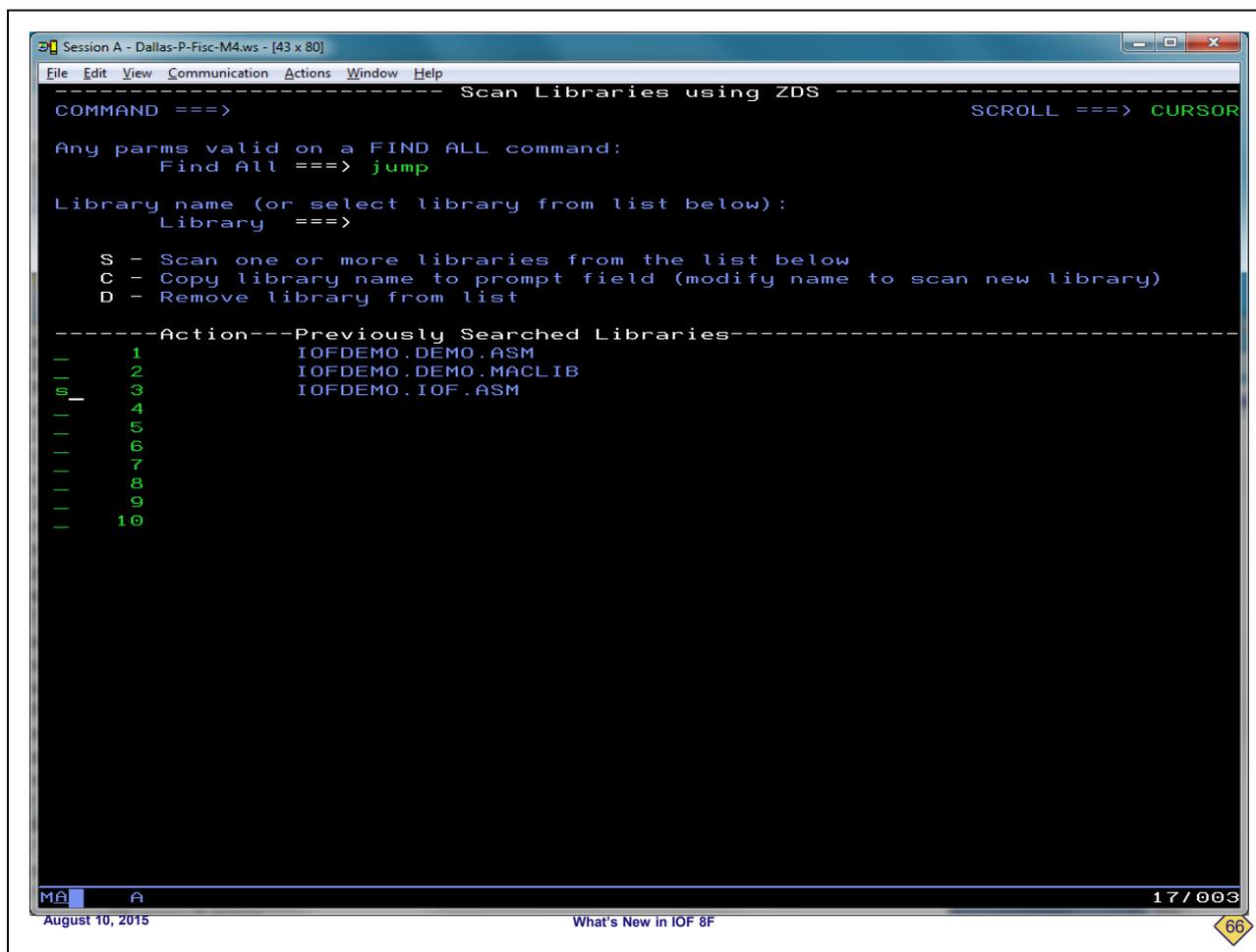


Enter the ZF command on any IOF or ISPF panel to display this interface menu.



The screenshot shows a terminal window titled "Session A - Dallas-P-Fisc-M4.ws - [43 x 80]". The window contains the following text:

```
----- Scan Libraries using ZDS -----
COMMAND ==>                                SCROLL ==> CURSOR
Any parms valid on a FIND ALL command:
  Find All ==> jump
Library name (or select library from list below):
  Library ==>
S - Scan one or more libraries from the list below
C - Copy library name to prompt field (modify name to scan new library)
D - Remove library from list

-----Action---Previously Searched Libraries-----
-      1      IOFDEMO.DEMO.ASM
-      2      IOFDEMO.DEMO.MACLIB
s_     3      IOFDEMO.IOF.ASM
-      4
-      5
-      6
-      7
-      8
-      9
-     10
```

At the bottom of the terminal window, there is a status bar with "MA A" on the left, "August 10, 2015" in the middle, "What's New in IOF 8F" on the right, and "17/003" in the bottom right corner. A small yellow diamond icon with the number "66" is located in the bottom right corner of the terminal window.

To search for the string “jump” in the library IOFDEMO.IOF.ASM, we will enter “jump” in the Find All field and select the library from the list of remembered libraries.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scanning PDS: IOFDEMO.IOF.ASM -----
COMMAND ==> SCROLL ==> CURSOR

S - IOF Browse      V - ISPF View      E - ISPF Edit
Find - Member name or text  Next - Next unique member

-----Member---Act-Record Text-----
1 @JOJS313      LA      R15,4(R15)      JUMP OVER MISSING HOLD...
2 CMDBASE      *-JUMP-----Prim-----
3 "            *            "JUMP" command to terminate the current panel a...
4 "            *            its own "JUMP" command.
5 "            *            to "JUMP" so they can be processed by this comm...
6 "            *            COMMAND 'JUMP',4
7 "            *            BUILD COMMAND='END',I1='.JUMP #'
8 "            *-JUMP-----Prim-----
9 "            *            Alternate JUMP character defined by JUMP= parm...
10 "           *            member B49CMPAT. Just convert it to a JUMP com...
11 "           *            COMMAND '&JUMPCR',1
12 "           *            BUILD COMMAND='JUMP',I1='#'
13 "           *            BUILD COMMAND='JUMP I #'          then pass "I...
14 "           *            BUILD COMMAND='JUMP PR #'        then pass "P...
15 "           *            BUILD COMMAND='JUMP P #'        then pass "P...
16 "           *            BUILD COMMAND='JUMP LINE #'      then pass "L...
17 EASYDEV      ... R14,*+4+6      .. Reduce input length and jump ...
18 "            ... R14,*+4+6      Yes - Reduce length and jump ...
19 OPTIONS      GBLC  &PRTOPTN,&PRTOPTC,&MVSCHR,&INPRUNX,&JUMPC...
20 "            SETOVAR JUMPCR,&JUMPCR' JUMP= FROM B49C...
21 OPTOPT      COMMAND 'JUMP',4
22 "            BUILD COMMAND='SETDVARS.SETJUMP'
23 "            BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
24 OPTSDF      COMMAND 'JUMP',4
25 "            BUILD COMMAND='SETDVARS.SETJUMP'
26 "            BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
27 OPTUS1      COMMAND 'JUMP',4
28 "            BUILD COMMAND='SETDVARS.SETJUMP'
29 "            BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
30 OPTUS2      COMMAND 'JUMP',4
31 "            BUILD COMMAND='SETDVARS.SETJUMP'
32 "            BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
33 OPTUS3      COMMAND 'JUMP',4
34 "            BUILD COMMAND='SETDVARS.SETJUMP'
35 "            BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
MA      A
August 10, 2015      What's New in IOF 8F      117003

```

Here is the list of “hits” for the “jump” string. Note that this list has an entry for each hit, and not just an entry for each member that contains a hit. We will use the “S” line command for a hit in the CMDBASE member to browse it with IOF browse.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
DSN: IOFDEMO.IOF.ASM(CMDBASE) Record 44 Columns 1-80
COMMAND ==> SCROLL ==> CURSOR
* "JUMP" command to terminate the current panel and stack itself 00440000
* for execution again on the previous panel. This cycle will 00450000
* continue until the Options Menu processes the command with 00460000
* its own "JUMP" command. 00470000
* 00480000
* Note that the "/" and "=" commands are internally converted 00490000
* to "JUMP" so they can be processed by this command table 00500000
* entry. 00510000
* 00520000
* COMMAND 'JUMP',4 00530000
* BUILD COMMAND='END',I1='.JUMP #' 00540000
* 00550000
*--JUMP-----Prim-----Pan----- 00560000
* Alternate JUMP character defined by JUMP= parm in options 00570000
* member B49CMPAT. Just convert it to a JUMP command. 00580000
* 00590000
* COMMAND '&JUMPCHR',1 00600000
* BUILD COMMAND='JUMP',I1='#' 00610000
* 00910000
*--SCOPE-----Prim-----Pan-JQEDSP,JOEDSP,MONITR----- 00920021
* SCOPE command for Job List and Output Group Display. 00930000
* 00940000
* COMMAND 'SCOPE',5,PANEL=(JQEDSP,JOEDSP,MONITR) 00950021
* BUILD COMMAND='SETPVAR',I1='OPTSCOP #', Reset profile option +00960021
* I2='.SETDVAR OPTSCOP #', Reset display value +00970021
* I3='.FILTER SCOPE(#)' Redisplay list menu 00980021
* 00990000
*--SCOPE-----Prim-----Pan-JOBSUM,BROWZE,NDXMNU,FNDALL----- 01000021
* SCOPE command for all panels that run under one of the panels 01010000
* that support the SCOPE command. The SAVEJCMD command 01020000
* used below just saves the SCOPE command to be executed upon 01030000
* return to the Job List, etc., panel. 01040000
* NOTE: The SETPVAR is issued prior to the SAVEJCMD to perform 01050021
* an access check to determine access to the SCOPE cmd. 01060021
* 01070000
* COMMAND 'SCOPE',5,PANEL=(JOBSUM,BROWZE,NDXMNU,FNDALL) 01080021
* BUILD COMMAND='SETPVAR',I1='OPTSCOP #', +01090021
* I2='.SAVEJCMD SCOPE #' 01100021
* 01110000
*--SCOPE-----Prim-----Pan-HELP----- 01120026
* SCOPE command on HELP panels 01130026
MÁ A 03/011
August 10, 2015 What's New in IOF 8F 68

```

Here you can see that we not only have nested to IOF browse for the desired member but we are looking at the record containing the specific hit that we selected. Now, we will return to the list of hits.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scanning PDS: IOFDEMO.IOF.ASM ----- SCROLL ==> CURSOR
COMMAND ==>

S - IOF Browse      V - ISPF View      E - ISPF Edit
Find - Member name or text      Next - Next unique member

-----Member---Act-Record Text-----
1 @JOJS313      LA      R15,4(R15)      JUMP OVER MISSING HOLD...
2 CMDBASE      *-JUMP-----Prim-----
3 "      Sel *      "JUMP" command to terminate the current panel a...
4 "      *      its own "JUMP" command.
5 "      *      to "JUMP" so they can be processed by this comm...
6 "      *      COMMAND 'JUMP',4
7 "      *      BUILD COMMAND='END',I1='.JUMP #'
8 "      *-JUMP-----Prim-----
9 "      *      Alternate JUMP character defined by JUMP= parm...
10 "      *      member B49CMPAT. Just convert it to a JUMP com...
11 "      *      COMMAND '&JUMPCHR',1
12 "      *      BUILD COMMAND='JUMP',I1='#'
13 "      *      BUILD COMMAND='JUMP I #'      then pass "I...
14 "      *      BUILD COMMAND='JUMP PR #'      then pass "P...
15 "      *      BUILD COMMAND='JUMP P #'      then pass "P...
16 "      *      BUILD COMMAND='JUMP LINE #'      then pass "L...
17 EASYDEV      ... R14,*+4+6      .. Reduce input length and jump ...
18 "      ... R14,*+4+6      Yes - Reduce length and jump ...
19 OPTIONS      GBLC &PRTOPTN,&PRTOPTC,&MVSCHR,&INPRUNX,&JUMPC...
20 "      SETOVAR JUMPCHAR,'&JUMPCHR' JUMP= FROM B49C...
21 OPTOPT      COMMAND 'JUMP',4
22 "      BUILD COMMAND='SETDVARS.SETJUMP'
23 "      BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
24 OPTSDF      COMMAND 'JUMP',4
25 "      BUILD COMMAND='SETDVARS.SETJUMP'
26 "      BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
27 OPTUS1      COMMAND 'JUMP',4
28 "      BUILD COMMAND='SETDVARS.SETJUMP'
29 "      BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
30 OPTUS2      COMMAND 'JUMP',4
31 "      BUILD COMMAND='SETDVARS.SETJUMP'
32 "      BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...
33 OPTUS3      COMMAND 'JUMP',4
34 "      BUILD COMMAND='SETDVARS.SETJUMP'
35 "      BUILD COMMAND='SETDVARS.SETJUMP.#1',I1='##2',...

MA      A
August 10, 2015      What's New in IOF 8F      11/003

```

Now, we will use the “E” line command beside a hit to nest to ISPF edit.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
File Edit Edit_Settings Menu Utilities Compilers Test Help

EDIT      IOFDEMO.IOF.ASM(CMDBASE) - 01.32      Columns 00001 00072
Command ==>                               Scroll ==> PAGE
004400 *      "JUMP" command to terminate the current panel and stack itself
004500 *      for execution again on the previous panel. This cycle will
004600 *      continue until the Options Menu processes the command with
004700 *      its own "JUMP" command.
004800 *
004900 *      Note that the "/" and "=" commands are internally converted
005000 *      to "JUMP" so they can be processed by this command table
005100 *      entry.
005200 *
005300 *      COMMAND 'JUMP',4
005400 *      BUILD COMMAND='END',I1='.JUMP #'
005500 *
005600 * -JUMP-----Prim-----
005700 *      Alternate JUMP character defined by JUMP= parm in options
005800 *      member B49CMPAT. Just convert it to a JUMP command.
005900 *
006000 *      COMMAND '&JUMP CHR',1
006100 *      BUILD COMMAND='JUMP',I1='#'
009100 *
009200 * -SCOPE-----Prim-----Pan-JQEDSP,JOEDSP,MONITR-----
009300 *      SCOPE command for Job List and Output Group Display.
009400 *
009500 *      COMMAND 'SCOPE',5,PANEL=(JQEDSP,JOEDSP,MONITR)
009600 *      BUILD COMMAND='SETPVAR',I1='OPTSCOP #', Reset profile option +
009700 *      I2='.SETDVAR OPTSCOP #', Reset display value +
009800 *      I3='.FILTER SCOPE(#)' Redisplay list menu
009900 *
010000 * -SCOPE-----Prim-----Pan-JOBSUM,BROWZE,NDXMNU,FNDALL-----
010100 *      SCOPE command for all panels that run under one of the panels
010200 *      that support the SCOPE command. The SAVEJCMD command
010300 *      used below just saves the SCOPE command to be executed upon
010400 *      return to the Job List, etc., panel.
010500 *      NOTE: The SETPVAR is issued prior to the SAVEJCMD to perform
010600 *      an access check to determine access to the SCOPE cmd.
010700 *
010800 *      COMMAND 'SCOPE',5,PANEL=(JOBSUM,BROWZE,NDXMNU,FNDALL)
010900 *      BUILD COMMAND='SETPVAR',I1='OPTSCOP #', +
011000 *      I2='.SAVEJCMD SCOPE #'
011100 *
Mâ      A
August 10, 2015      What's New in IOF 8F      05 / 019

```

Again, you can see that we have nested into ISPF edit and are now positioned to the record that contains the selected hit.
 Now, back to the list of hits.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scanning PDS: IOFDEMO.IOF.ASM -----
COMMAND ==> f itself _                               SCROLL ==> CURSOR

S - IOF Browse      V - ISPF View      E - ISPF Edit
Find - Member name or text      Next - Next unique member

-----Member---Act-Record Text-----
-- 1 @JOJS313      LA      R15,4(R15)          JUMP OVER MISSING HOLD...
-- 2 CMDBASE      *-JUMP-Prim-----
-- 3 "            Sel *      "JUMP" command to terminate the current panel a...
-- 4 "            *      its own "JUMP" command.
-- 5 "            *      to "JUMP" so they can be processed by this comm...
-- 6 "            *      COMMAND 'JUMP',4
-- 7 "            *      BUILD COMMAND='END',I1='JUMP #'
-- 8 "            *-JUMP-Prim-----
-- 9 "            *      Alternate JUMP character defined by JUMP= parm...
--10 "            *      member B49CMPAT. Just convert it to a JUMP com...
--11 "            *      COMMAND '&JUMPCHR',1
--12 "            *      BUILD COMMAND='JUMP',I1='#'
--13 "            *      BUILD COMMAND='JUMP I #'          then pass "I...
--14 "            *      BUILD COMMAND='JUMP PR #'        then pass "P...
--15 "            *      BUILD COMMAND='JUMP P #'        then pass "P...
--16 "            *      BUILD COMMAND='JUMP LINE #'      then pass "L...
--17 EASYDEV      ... R14,*+4+6          .. Reduce input length and jump...
--18 "            ... R14,*+4+6          Yes - Reduce length and jump...
--19 OPTIONS      GBLC &PRTOPTN,&PRTOPTC,&MVSCHR,&INPRUNX,&JUMPC...
--20 "            SETOVAR JUMPCHAR,'&JUMPCHR' JUMP= FROM B49C...
--21 OPTOPT      COMMAND 'JUMP',4
--22 "            BUILD COMMAND='SETDVAR.SETJUMP'
--23 "            BUILD COMMAND='SETDVAR.SETJUMP.#1',I1='##2',...
--24 OPTSDF      COMMAND 'JUMP',4
--25 "            BUILD COMMAND='SETDVAR.SETJUMP'
--26 "            BUILD COMMAND='SETDVAR.SETJUMP.#1',I1='##2',...
--27 OPTUS1      COMMAND 'JUMP',4
--28 "            BUILD COMMAND='SETDVAR.SETJUMP'
--29 "            BUILD COMMAND='SETDVAR.SETJUMP.#1',I1='##2',...
--30 OPTUS2      COMMAND 'JUMP',4
--31 "            BUILD COMMAND='SETDVAR.SETJUMP'
--32 "            BUILD COMMAND='SETDVAR.SETJUMP.#1',I1='##2',...
--33 OPTUS3      COMMAND 'JUMP',4
--34 "            BUILD COMMAND='SETDVAR.SETJUMP'
--35 "            BUILD COMMAND='SETDVAR.SETJUMP.#1',I1='##2',...
MA  A  02/024
August 10, 2015      What's New in IOF 8F

```

The FIND command on this panel can be very useful because it works on the member name and the full text of the hit records. To demonstrate that, we will enter a FIND command for the string “itself”, which is not displayed anywhere on this panel.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scanning PDS: IOFDEMO.IOF.ASM -----
COMMAND ==>                                SCROLL ==> CURSOR

      S - IOF Browse      V - ISPF View      E - ISPF Edit
Find - Member name or text      Next - Next unique member

-----Member---Act-Record Text-----
s_  3  CMDBASE  Sel  *      "JUMP" command to terminate the current panel a...
  4  "        "      *      its own "JUMP" command.
  5  "        "      *      to "JUMP" so they can be processed by this comm...
  6  "        "      *      COMMAND 'JUMP',4
  7  "        "      *      BUILD COMMAND='END',I1='JUMP #'
  8  "        "      *      *--JUMP--Prim-----
  9  "        "      *      Alternate JUMP character defined by JUMP= parm
10  "        "      *      member B49CMPAT. Just convert it to a JUMP com...
11  "        "      *      COMMAND '&JUMPCHR',1
12  "        "      *      BUILD COMMAND='JUMP',I1='#'
13  "        "      *      BUILD COMMAND='JUMP I #'          then pass "I...
14  "        "      *      BUILD COMMAND='JUMP PR #'        then pass "P...
15  "        "      *      BUILD COMMAND='JUMP P #'        then pass "P...
16  "        "      *      BUILD COMMAND='JUMP LINE #'      then pass "L...
17  EASYDEV  ... R14,*+4+6      .. Reduce input length and jump ...
18  "        "        "        Yes - Reduce length and jump ...
19  OPTIONS  GBLC  &PRTOPTN,&PRTOPTC,&MVSCHR,&INPRUNX,&JUMPC...
20  "        "        "        SETOVAR JUMPCHAR,'&JUMPCHR' JUMP= FROM B49C...
21  OPTOPT  COMMAND 'JUMP',4
22  "        "        BUILD COMMAND='SETDVAR.SETJUMP'
23  "        "        BUILD COMMAND='SETDVAR.SETJUMP.#1',I1='##2',
24  OPTSDF  COMMAND 'JUMP',4
25  "        "        BUILD COMMAND='SETDVAR.SETJUMP'
26  "        "        BUILD COMMAND='SETDVAR.SETJUMP.#1',I1='##2',
27  OPTUS1  COMMAND 'JUMP',4
28  "        "        BUILD COMMAND='SETDVAR.SETJUMP'
29  "        "        BUILD COMMAND='SETDVAR.SETJUMP.#1',I1='##2',
30  OPTUS2  COMMAND 'JUMP',4
31  "        "        BUILD COMMAND='SETDVAR.SETJUMP'
32  "        "        BUILD COMMAND='SETDVAR.SETJUMP.#1',I1='##2',
33  OPTUS3  COMMAND 'JUMP',4
34  "        "        BUILD COMMAND='SETDVAR.SETJUMP'
35  "        "        BUILD COMMAND='SETDVAR.SETJUMP.#1',I1='##2',
36  VLIDBASE LA R2,1(R2)      Jump over period delim...
37  Z30MACS SETCMPAT &MVSCHAR=,&PCMD=,&INPRUN=,&JUMP=/,&NOM...

MA  A                                09/003
August 10, 2015                        What's New in IOF 8F

```

The FIND command has scrolled the display down to the record that contains the string "itself". We can't see it on the display because it was not in the part of the record segment that was displayed. So, we will select that hit with the "S" line command.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
DSN: IOFDEMO.IOF.ASM(CMDBASE) Record 44 Columns 1-80
COMMAND ==> SCROLL ==> CURSOR
* "JUMP" command to terminate the current panel and stack itself 00440000
* for execution again on the previous panel. This cycle will 00450000
* continue until the Options Menu processes the command with 00460000
* its own "JUMP" command. 00470000
* 00480000
* Note that the "/" and "=" commands are internally converted 00490000
* to "JUMP" so they can be processed by this command table 00500000
* entry. 00510000
* 00520000
* COMMAND 'JUMP',4 00530000
* BUILD COMMAND='END',I1='.JUMP #' 00540000
* 00550000
*--JUMP-----Prim-----
* Alternate JUMP character defined by JUMP= parm in options 00560000
* member B49CMPAT. Just convert it to a JUMP command. 00570000
* 00580000
* COMMAND '&JUMPCHR',1 00590000
* BUILD COMMAND='JUMP',I1='#' 00600000
* 00610000
*--SCOPE-----Prim-----Pan-JQEDSP,JOEDSP,MONITR-----
* SCOPE command for Job List and Output Group Display. 00620021
* 00630000
* COMMAND 'SCOPE',5,PANEL=(JQEDSP,JOEDSP,MONITR) 00640000
* BUILD COMMAND='SETPVAR',I1='OPTSCOP #', Reset profile option +00650021
* I2='.SETDVAR OPTSCOP #', Reset display value +00660021
* I3='.FILTER SCOPE(#)', Redisplay list menu 00670021
* 00680000
*--SCOPE-----Prim-----Pan-JOBSUM,BROWZE,NDXMNU,FNDALL-----
* SCOPE command for all panels that run under one of the panels 01000021
* that support the SCOPE command. The SAVEJCMD command 01010000
* used below just saves the SCOPE command to be executed upon 01020000
* return to the Job List, etc., panel. 01030000
* NOTE: The SETPVAR is issued prior to the SAVEJCMD to perform 01040000
* an access check to determine access to the SCOPE cmd. 01050021
* 01060021
* 01070000
* COMMAND 'SCOPE',5,PANEL=(JOBSUM,BROWZE,NDXMNU,FNDALL) 01080021
* BUILD COMMAND='SETPVAR',I1='OPTSCOP #', +01090021
* I2='.SAVEJCMD SCOPE #' 01100021
* 01110000
*--SCOPE-----Prim-----Pan-HELP-----
* SCOPE command on HELP panels 01120026
* 01130026
MA A 03/011
August 10, 2015 What's New in IOF 8F 73

```

Now that we see the entire record, we can see that it does indeed contain the string “itself” out to the right. This means that by using FIND commands on the hit list you can effectively find records that contain both of two different strings. The first string is specified on the ZF interface panel and the second string in a subsequent FIND command on the list of hits.

Now, we will go back to the ZF interface panel.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scan Libraries using ZDS -----
COMMAND ==>
SCROLL ==> CURSOR

Any parms valid on a FIND ALL command:
Find All ==> jump 30 70 word _

Library name (or select library from list below):
Library ==> 'IOFDEMO.IOF.ASM'

S - Scan one or more libraries from the list below
C - Copy library name to prompt field (modify name to scan new library)
D - Remove library from list

-----Action-----Previously Searched Libraries-----
1 IOFDEMO.DEMO.ASM
2 IOFDEMO.DEMO.MACLIB
3 Scanned IOFDEMO.IOF.ASM
4
5
6
7
8
9
10

Mâ A 05 / 039
August 10, 2015 What's New in IOF 8F 74
```

One of the most powerful features of the ZF command is that you can search using any parms that are valid on an IOF FIND command. To demonstrate that we will enter a more complex find string that restricts the columns and requires the string to be a separate word.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scanning PDS: IOFDEMO.IOF.ASM -----
COMMAND ==> _                               SCROLL ==> CURSOR

S - IOF Browse      V - ISPF View      E - ISPF Edit
Find - Member name or text      Next - Next unique member

-----Member---Act-Record Text-----
- 1 @JOJS313      LA      R15,4(R15)      JUMP OVER MISSING HOLD...
- 2 CMDBASE      BUILD COMMAND='END',I1='.JUMP #'
- 3 "            *      Alternate JUMP character defined by JUMP= parm ...
- 4 "            *      member B49CMPAT. Just convert it to a JUMP com...
- 5 EASYDEV      ... R14,*+4+6      .. Reduce input length and jump ...
- 6 "            ... R14,*+4+6      Yes - Reduce length and jump ...
- 7 OPTIONS      SETOVAR JUMPCHAR,'&JUMPCHR' JUMP= FROM B49C...
- 8 VLIDBASE      LA      R2,1(R2)      Jump over period delim...
- 9 Z30MACS      SETCMPAT &MVSCHAR=,&PCMD=,&INPRUN=,&JUMP=/,&NOM...

MA  A  02 / 015
August 10, 2015      What's New in IOF 8F

```

From this hit list you can see that the original hit list has now been reduced to only those “pull” strings that appear in columns 30 through 70 and are separate words. The ability to scan partitioned data sets using full IOF FIND command capabilities is very powerful. Now, we will return to the ZF interface panel.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scan Libraries using ZDS -----
COMMAND ==>
SCROLL ==> CURSOR

Any parms valid on a FIND ALL command:
Find All ==> jump 30 70 word

Library name (or select library from list below):
Library ==> 'IOFDEMO.IOF.ASM'

S - Scan one or more libraries from the list below
C - Copy library name to prompt field (modify name to scan new library)
D - Remove library from list

-----Action---Previously Searched Libraries-----
s      1      IOFDEMO.DEMO.ASM
s      2      IOFDEMO.DEMO.MACLIB
s      3 Scanned IOFDEMO.IOF.ASM
_      4
_      5
_      6
_      7
_      8
_      9
_     10

Mâ  A 17/003
August 10, 2015 What's New in IOF 8F 76
```

You can also scan multiple libraries at one time. We have selected three different libraries to be scanned.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scanning PDS: IOFDEMO.IOF.ASM -----
COMMAND ==> _                               SCROLL ==> CURSOR

      S - IOF Browse      V - ISPF View      E - ISPF Edit

      Find - Member name or text      Next - Next unique member

-----Member--Act-Record Text-----
--  1 @JOJS313          LA      R15,4(R15)          JUMP OVER MISSING HOLD...
--  2 CMDBASE           BUILD COMMAND='END',I1=',JUMP #'
--  3 "                 *           Alternate JUMP character defined by JUMP= parm ...
--  4 "                 *           member B49CMPAT. Just convert it to a JUMP com...
--  5 EASYDEV           ... R14,*+4+6          .. Reduce input length and jump ...
--  6 "                 ... R14,*+4+6          Yes - Reduce length and jump ...
--  7 OPTIONS          SETOVAR JUMPCHAR,'&JUMPCHR' JUMP= FROM B49C...
--  8 VLIDBASE         LA      R2,1(R2)          Jump over period delim...
--  9 Z30MACS          SETCMPAT &MVSCHAR=,&PCMD=,&INPRUN=,&JUMP=/,&NOM...

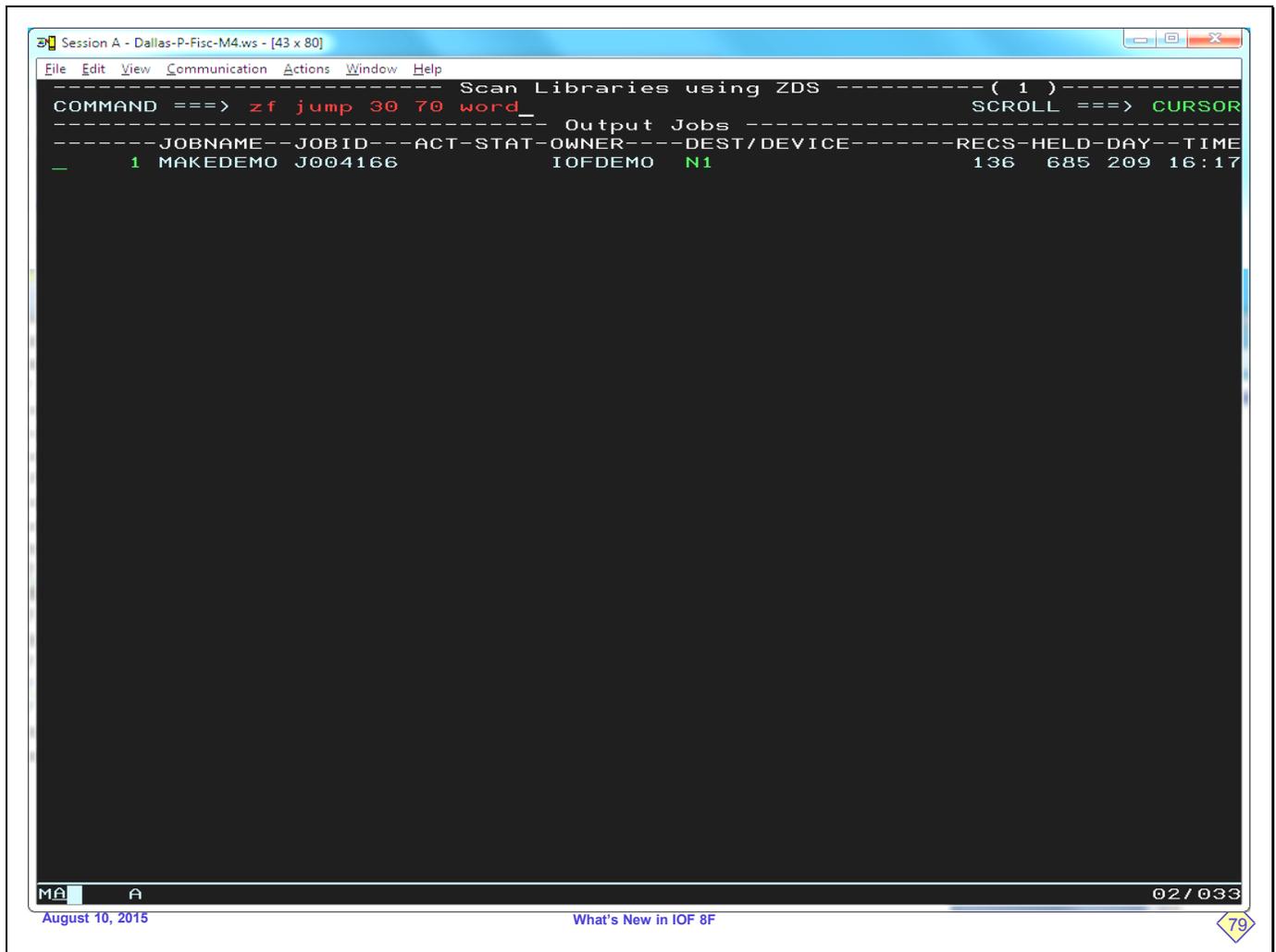
MA  A  02/015
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```

The first thing we see is the list of hits for the first of the three selected libraries that actually contain any hits. We can work with this panel as we wish, selecting hits and browsing or editing members. In this case this is the only library of the three selected libraries that contained any hits. So, when we return to the ZF interface panel...

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
-----< No Hits >-----
COMMAND ==> _
                                SCROLL ==> CURSOR
Any parms valid on a FIND ALL command:
  Find All ==> jump 30 70 word
Library name (or select library from list below):
  Library ==> 'IOFDEMO.IOF.ASM'
S - Scan one or more libraries from the list below
C - Copy library name to prompt field (modify name to scan new library)
D - Remove library from list
-----Action-----Previously Searched Libraries-----
  1 No Hits IOFDEMO.DEMO.ASM
  2 No Hits IOFDEMO.DEMO.MACLIB
  3 Scanned IOFDEMO.IOF.ASM
  4
  5
  6
  7
  8
  9
 10
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```

...we can see the “No Hits” short message at the top of the screen. This alerts us to the fact that at least one of the selected libraries contained no hits. And, from the Previously Searched Libraries column we can tell exactly which of the selected libraries contained at least one instance of the search string. Now, we will return to the *IOF Job List* to demonstrate a feature of the ZF command.



If you enter the ZF command with no parms, it will display only the ZF interface menu. But as this screen shows, you can also specify your search parms right on the ZF command. In that case you would see the following ZF interface panel.

```
Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scan Libraries using ZDS -----
COMMAND ==> 1-3_
SCROLL ==> CURSOR
Any parms valid on a FIND ALL command:
Find All ==> jump 30 70 word
Library name (or select library from list below):
Library ==>
S - Scan one or more libraries from the list below
C - Copy library name to prompt field (modify name to scan new library)
D - Remove library from list
-----Action-----Previously Searched Libraries-----
1 IOFDEMO.DEMO.ASM
2 IOFDEMO.DEMO.MACLIB
3 IOFDEMO.IOF.ASM
4
5
6
7
8
9
10
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```

You can see that the parms specified on the ZF command have already been filled into the search parms field.
And to demonstrate another short cut, you can enter only the menu numbers in the command area to scan multiple libraries.
We will not press ENTER on this screen because it would just replicate our previous results when scanning three libraries.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
Menu Options View Utilities Compilers Help

DSLIST - Data Sets Matching IOFDEMO.*                               Row 1 of 25
Command ==>                                                       Scroll ==> PAGE

Command - Enter "/" to select action                               Message                               Volume
-----
IOFDEMO.BROADCAST                                               TSI901
IOFDEMO.CLIST                                                    TSI901
IOFDEMO.DEMO.ASM                                                TSI901
IOFDEMO.DEMO.CNTL                                               TSI901
IOFDEMO.DEMO.CNTL.FLATPDS                                       WORK91
IOFDEMO.DEMO.DATA                                               TSI901
IOFDEMO.DEMO.LOAD                                               TSI901
IOFDEMO.DEMO.MACLIB                                             TSI901
IOFDEMO.DEMO.OBJ                                                TSI901
IOFDEMO.DEMO.PROCLIB                                           TSI901
zf jump 30 70 MO_IOF.ASM                                         TSI901
IOFDEMO.IOF.CLIST                                               TSI901
IOFDEMO.IOF8E.GETLIST.ELH2MPYY.IOFJOB                          WORK90
IOFDEMO.IOF8E.GETLIST.ELH2MPYZ.IOFJOB                          WORKZ9
IOFDEMO.IOF8F.GETLIST.ELH2MQFM.IOFJOB                          WORK91
IOFDEMO.IOF8F.GETLIST.ELH2MQFN.IOFJOB                          WORK90
IOFDEMO.IOF8F.GETLIST.ELH2MQFO.IOFJOB                          WORKZ9
IOFDEMO.ISPF.ISPPROF                                           TSI901
IOFDEMO.MAKEDEMO.ELHGKISY.IOFJOB.FLATPDS                       WORK91
IOFDEMO.MAKEDEMO.ELH2MULM.IOFJOB                                WORK90
IOFDEMO.MAKEDEMO.IOFLIST                                         WORKZ9
IOFDEMO.OLDDEMO1.ELH2M01M.IOFJOB                                WORK90
IOFDEMO.OLDDEMO2.ELH2M01M.IOFJOB                                WORK91
IOFDEMO.OLDDEMO3.ELH2MPIA.IOFJOB                                WORK90
IOFDEMO.SPFLOG1.LIST                                             WORK90
***** End of Data Set list *****

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```

This is a DSLIST display under ISPF. A very powerful feature of ZF is that it can be used on an ISPF DSLIST display (like option 3.4) just as you might use the SF line command. We will enter a ZF line command beside the IOFDEMO.IOF.ASM library.

```

Session A - Dallas-P-Fisc-M4.ws - [43 x 80]
File Edit View Communication Actions Window Help
----- Scanning PDS: IOFDEMO.IOF.ASM -----
COMMAND ==>> _                               SCROLL ==>> CURSOR

S - IOF Browse      V - ISPF View      E - ISPF Edit
Find - Member name or text      Next - Next unique member

-----Member---Act-Record Text-----
- 1 @JOJS313      LA      R15,4(R15)      JUMP OVER MISSING HOLD...
- 2 CMDBASE      BUILD COMMAND='END',I1='.JUMP #'
- 3 "            *      Alternate JUMP character defined by JUMP= parm ...
- 4 "            *      member B49CMPAT. Just convert it to a JUMP com...
- 5 EASYDEV      ... R14,*+4+6      .. Reduce input length and jump ...
- 6 "            ... R14,*+4+6      Yes - Reduce length and jump ...
- 7 OPTIONS      SETOVAR JUMPCHAR,'&JUMPCHR' JUMP= FROM B49C...
- 8 VLIDBASE      LA      R2,1(R2)      Jump over period delim...
- 9 Z30MACS      SETCMPAT &MVSCHAR=,&PCMD=,&INPRUN=,&JUMP=,&NOM...

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```

As you can see, we get the same type of hit list when we use ZF on an ISPF DSLIST display that we do from the ZF interface menu. And, any library scanned from a DSLIST will automatically be added to the remembered libraries on the ZF interface panel.



ZF Command Summary

- ◆ Use any FIND parms
- ◆ Hits are on the first display
- ◆ Nest to specific hit
- ◆ IOF Browse, ISPF View or Edit
- ◆ Scanned libraries remembered on ZF panel
- ◆ Use ZF on DSLIST display