

z/OS Basic Skills: Introduction to ISPF

Unit 3: Using the ISPF utilities Module 5: Using ISPF compare and search utilities













Using ISPF compare and search utilities – Introduction

In this module, *Using ISPF compare and* search utilities, we'll explore compare utilities that allow you to compare data sets to identify differences and to search data sets to help you locate information.

The compare utilities can compare two sequential or partitioned data sets (PDS) or members of a PDS to identify their differences. Comparison may be at the file, line, word, or byte level. The compare utilities are useful not only for comparing source members, but also for comparing text and data files.

The search utilities let you search a member, a group of members, or a group of libraries to locate all occurrences of a string.

Time to complete: 20 – 30 minutes

```
Menu Help
                           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
               Reset statistics for members of ISPF library
  Hardcopu
               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
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)
             F2=Split
                           F3=Exit
                                        F7=Backward F8=Forward
F10=Actions F12=Cancel
                                                                          84/81
```



Using ISPF compare and search utilities – Objectives

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

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



Using ISPF compare and search utilities – Accessing the Utility Selection Panel

When you select option 3 on the Primary Option 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 will 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

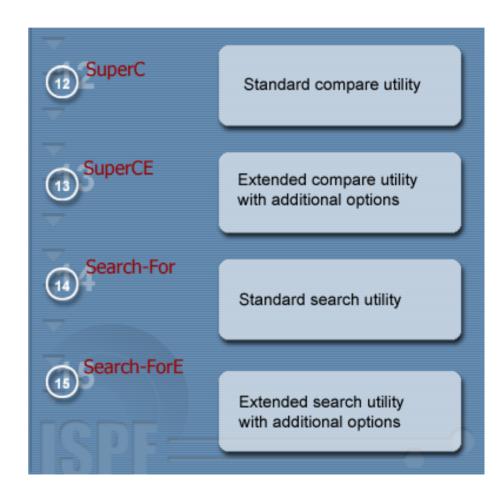
```
<u>M</u>enu <u>H</u>elp
                           Utility Selection Panel
1 Library
               Compress or print data set. Print index listing.
                 rename, delete, browse, edit or view members
 Data Set
               Allocate, rename, delete, catalog, uncatalog, or display
                 information of an entire data set
  Move/Copy
               Move, or copy members or data sets
  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
   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
              F2=Split
                           F3=Exit
                                        F7=Backward F8=Forward
F10=Actions F12=Cancel
                                                                          04/01
```



Using ISPF compare and search utilities – Starting the ISPF compare and search utilities

You can access the compare and search utility from the Utility Selection Panel using options 12,13,14, and 15. Although there are four selections, each of them represents a different interface to the same program, SuperC:

- SuperC (option 12) is the standard compare utility. It can perform a straight comparison of two data sets or members.
- SuperCE (option 13) is the extended compare with additional options possible.
- Search-For (option 14) is the standard search utility.
- Search-ForE (option 15) is the extended search utility that also provides additional options.





Using ISPF compare and search utilities – Exploring the first panel of the SuperC compare utility

The first panel of the SuperC utility is the New Data Set panel.

On this panel, you supply the new data set information. To keep track, SuperC refers to the two data sets as "new" and "old." In this context, a "new" data set is an updated version of a previously created data set.

You need only provide the name of the input data set and select either foreground or batch mode processing.

If you have a profile data set that contains various search options such as compare type and processing options, specify it in the Profile DS Name field. If the data set you are searching is password protected, you can enter the password here.

```
RefList Utilities
                    SuperC Compare Utility - New Data Set
Specify "New" Data Set to be compared, then press the ENTER key.
                                                                    More:
                             "New" data set parameters
                TESTB
                                   (Blank or pattern for member selection list
                                     "x" for all members)
'New" Other Partitioned, Sequential or VSAM Data Set:
                                   (If not cataloged)
   Volume Serial
                            Profile and password section
Profile DS Name . . .
Data Set Password
                                   (If New data set password protected)
Enter "/" to select option
                                Execution Mode
                                                         Output Mode
  Mixed Mode

    1. Foreground

    1. View

                           F3=Exit
F1=Help
              F2=Split
                                        F7=Backward F8=Forward F9=Swap
F10=Actions F12=Cancel
                                                                          11/019
```



Using ISPF compare and search utilities – SuperC compare utility options

At the bottom of the New Data Set panel, you'll see the options section. You can select either of the following two options by typing a slash (the symbol /) in front of them:

- Mixed mode in this mode, SuperC can scan and parse double-byte character set (DBCS) text strings.*
- Bypass selection list if you enter a member pattern for the "New" data set and select this option, SuperC processes all members that match the pattern without displaying a member selection list.

^{*} To use mixed mode, ISPF must be started with the JAPANESE keyword on a terminal that supports DBCS.



Using ISPF compare and search utilities – SuperC compare utility options continued

The other options you can select on this panel include:

- Execution mode type 1 to have SuperC run in foreground mode, or type 2 to have it run in background mode.
- Output mode type 1 to have the comparison results presented in the view mode, or type 2 to select the browse mode.

```
Menu RefList Utilities Help
                   SuperC Compare Utility - New Data Set
Command ===>
Specify "New" Data Set to be compared, then press the ENTER key.
  Type . . . . COBOL
                                 (Blank or pattern for member selection list,
                                   "*" for all members)
"New" Other Partitioned, Sequential or VSAM Data Set:
  Volume Serial . . . (If not cataloged)
Profile DS Name . . . _
                                 (If New data set password protected)
                       Options section
Enter "/" to select option
                                                       Output Mode
  Mixed Mode

    Foreground

    1. View

  Bypass selection list
                                       F7=Backward F8=Forward
F18=Actions F12=Cancel
```



Using ISPF compare and search utilities – Exploring the second panel of the SuperC compare utility

After you fill in the New Data Set panel and press the Enter key, the Old Data Set panel appears. The "new" data set you entered on the previous panel appears near the top. In the "old" data set section, enter the information about the second data set for the SuperC comparison.

The Listing DS Name is the name of the data set to which SuperC writes the results of the comparison. If you do not specify a name, the default data set name will be *prefix.userid.*SUPERC.LIST where *prefix* is your TSO prefix and *userid* is your user ID. If your prefix and user ID are identical, or if you do not have a prefix, then only the user ID is used.

```
RefList Utilities Help
                   SuperC Compare Utility - Old Data Set
       "Old" Data Set to be compared, then press the ENTER key to compare to
                . : SMCHUGH, TESTA, COBOL -
                                    "Old" data set section
'Old" other Partitioned, Sequential or VSAM Data Set:
                                  (If not cataloged)
  Volume Serial .
Listing DS Name
                      SUPERC.LIST
Data Set Password
                                  (If Old data set password protected)
                  List data set and password section
                    1. Delta
                                  CHNG
F1=Help
             F2=Split
                          F3=Exit
                                       F7=Backward F8=Forward
F10=Actions F12=Cancel
```



Using ISPF compare and search utilities – SuperC listing and sequence options

At the bottom of the Old Data Set panel, you can specify a listing type of:

- Delta list the differences between the data sets and include an overall summary.
- CHNG create a list similar to delta, but also include up to 10 unchanged lines before and after the changed lines to help you recognize changed areas in the source data sets.
- Long list and flag all new data set source lines and old data set deleted lines.
- OVSUM list only the overall summary.
- Nolist do not create a list.

The sequence number options tells SuperC whether to compare sequence numbers and where they are located in the record.



Using ISPF compare and search utilities – Using the SuperC compare utility - simulation

Let's try it. You have a PDS named SMCHUGH.TESTA.COBOL. You used it to create a new data set named SMCHUGH.TESTB.COBOL. You have edited some of the members of the new data set and even created a new member. Now you want to compare the two data sets.

To try this simulation, click the Launch button.

```
Menu RefList Utilities Help
                 SuperC Compare Utility - New Data Set
Command ===>
Specify "New" Data Set to be compared, then press the ENTER key.
                                                           More:
  Project . . SMCHUGH
  Group . . . . <u>TESTB</u> . . . . _____ . . . . ____ . .
  Tupe . . . . C080L
  Member . . .
                            (Blank or pattern for member selection list,
                              "*" for all members)
"New" Other Partitioned, Sequential or VSAM Data Set:
  Data Set Name . . .
  Volume Serial . . . (If not cataloged)
Profile DS Name . . . _____
Data Set Password . . (If New data set password protected)
Enter "/" to select option Execution Mode
                                                 Output Mode
  Mixed Mode

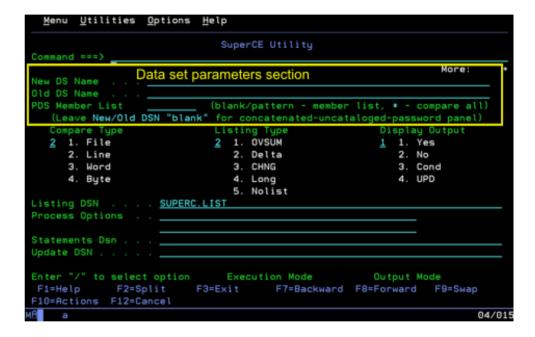
    1. Foreground

                                                 1. View
           F2=Split
F1=Help
                       F3=Exit
                                  F7=Backward F8=Forward F9=Swap
F10=Actions F12=Cancel
```



Using ISPF compare and search utilities – Exploring the SuperCE compare utility panel

Select option 13 from the Utility Selection Panel to access the SuperC Expanded (SuperCE) compare utility. SuperCE allows you to compare data sets or members. Additionally, it includes a variety of options that affect the way the data is compared. In the data set parameters section, you can specify both the new and old data sets. To compare all members of the data set, type an asterisk (the symbol *) in parenthesis after the data set name. To open a member selection list do not enter the asterisk symbol in parenthesis.





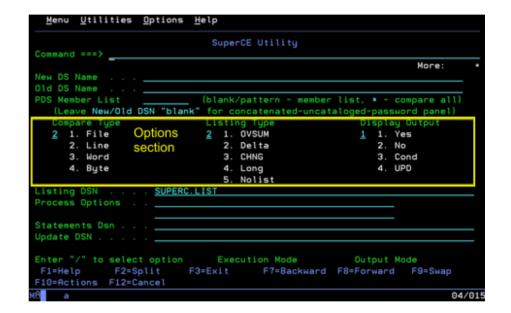
Using ISPF compare and search utilities – Options on the SuperCE compare utility panel

In the options section, you can select:

- Compare type
- Listing type
- Output display type

While SuperC only allows you to run a line by line comparison (unless you are using a profile), SuperCE lets you specify a file, line, word, or byte comparison.

With SuperCE, you can also create a profile that you can run on SuperC. The listing types and display output types are the same as they are for SuperC.





Using ISPF compare and search utilities – SuperCE output and additional options

In the output options section, you can specify:

- Listing data set name the data set to which SuperC writes the results of the comparison.
- Process options type or select keywords that tell SuperC how to process the compare operation.
- Statements DSN the data set that contains process statements.
- Update DSN the data set that you want SuperC to update. This data set can contain column-oriented results and is normally used as input to post processing programs.

In the additional options section you can bypass the selection list and set both the execution mode and the output mode as you can with the SuperC interface.

```
Utilities Options Help
                               SuperCE Utility
Command ===>
                             (blank/pattern - member list, * - compare all)
   (Leave New/Old DSN "blank" for concatenated-uncataloged-password panel)
                             Listing Type
                                                         Display Output
  2 1. File

    1. OVSUM

                                                         1 1. Yes
     Line
                                 Delta

    No

     Word
                                 CHNG
                                                            Cond
     4. Bute
                                4. Long
                                Nolist
                    SUPERC.LIST
  ocess Options . .
 Output options section
 nter "/" to select option
  Bypass selection list

    Foreground

    1. View

  Additional options section
             F2=Split
F10=Actions F12=Cancel
```



Using ISPF compare and search utilities – Using the SuperCE compare utility

To compare two data sets or data set members, type the two data set names using standard TSO conventions, including quotes for fully qualified names, as shown here. You can select from four different compare types:

- File calculates a hash value for each data set. Two files which are identical have identical hash values.
- Line compares two data sets line by line.
- Word compares two data sets word by word, which is useful for text files.
- Byte compares data sets byte by byte, which is useful for data sets that contain unreadable characters

```
Menu Utilities Options Help
                             SuperCE Utility
            . . 'SMCHUGH.TESTB.COBOL
Old DS Name . . 'SMCHUGH.TESTA.COBOL
                            (blank/pattern - member list, * - compare all)
   (Leave New/Old DSN "blank" for concatenated-uncataloged-password panel)
  Compare Tupe
                            Listing Type
                                                      Display Output

    1. File

     Line
                               Delta
     Word
     Bute
                               4. Long
                               Nolist
Listing DSN . . . SUPERC.LIST
Statements Dsn
Enter "/" to select option
                              Execution Mode
F1=Help
             F2=Split
                         F3=Exit
                                      F7=Backward F8=Forward F9=Swap
F10=Actions F12=Cancel
                                                                      07/04:
```



Using ISPF compare and search utilities – Expanding a SuperCE compare

With SuperCE you can concatenate up to four new and old input data sets. To navigate to the panel where you can specify multiple data sets, leave the New DS Name and Old DS Name fields on the SuperCE Utility panel blank. Select all of the other options you want to use for the comparison and press the Enter key. The SuperCE – Concatenation Foreground Entry panel appears. If you select batch execution, you access a similar concatenation panel for batch data set entry.

Specify the new and old input data sets using standard TSO conventions, including quotes for fully qualified names.

Then press the Enter key to begin the comparison. If you run the comparison in foreground mode, your keyboard is locked until SuperC processing is complete. If you run it in batch mode, you can continue to use your keyboard while processing continues in the background.



Using ISPF compare and search utilities – Requesting SuperCE processing options

Depending on the comparison type, you can use processing options to customize your comparison. Enter the option keywords in the Process Options field on the SuperCE Utility panel, or select your options from a list. Some of the options (SEQ, NOSEQ, COBOL, and ANYC) specify where the sequence numbers appear in the record and whether or not to include them. Others control processing of comment lines and blank lines.

To display the list, type P on the command line, select the comparison type, and press the Enter key. The panel shown here includes the process options for a line comparison.

```
- Line Compare Process Options
Enter "/" to select option or "blank" to remove. Scroll to view selections.
Press Enter/End to process or Return/Cancel to exit.
                        Input Process Control Options
   SEO
            - Ignore FB 80/VB 255 standard sequence number columns or
   NOSEQ
           - Process FB 80/VB 255 standard sequence number columns as data.
   COBOL
            - Ignore sequence number columns 1-6 in FB 80 records.
   ANYC
           - Process lower case as upper case input characters.
   MIXED
           - Data may contain DBCS strings delimited by SO/SI characters.
   CKPACKL - Check and unpack data before comparing data sets or members.
   Y2DTONLY - Process only data defined by Year 2000 Date Definitions.
   ALLMEMS - Compare all members including alias entries.
                        Do Not Process Control Options
   DPPLCMT - Do not process /* ... */ comments and blank compare lines.
           - Do not process (* ... *) comments and blank compare lines.
           - Do not process "--" comments and blank compare lines.
           - Do not process "assembler" lines with "x" in column 1.
           - Do not process lines with "C" in column 1
           - Do not process lines with "*" in column 7.
F1=Help
F12=Cancel
```

To select an option, type a slash (the symbol /) next to it. When you have selected all the options you want to include, press the Enter key. The option keywords appear in the Process Options field on the SuperCE Utility panel.



Using ISPF compare and search utilities – Exploring the Search-For Utility panel

To access the Search-For Utility panel, select option 14 on the Utility Selection Panel. You can use this utility to search for one or more characters in a data set.

Enter the search string in the search string field. If the string contains spaces or special characters, you must use quotes around the string. In this basic search utility, search strings are not case-sensitive, so you can enter them in either uppercase or lowercase.

The listing data set is the data set to which the search utility writes the results of the search. If the data set you are searching is password protected, enter the password in the field provided.

```
RefList Utilities Help
                              Search-For Utility
Command ===>
                                     Search string field
Search String
ISPF Library:
                                     Search in data set parameters
  Project
                                  (Blank or pattern for member selection list,
                                    "*" for all members)
Other Partitioned, Sequential or VSAM Data Set:
  Data Set Name
                                  (If not cataloged)
  Volume Serial .
                       SECHEOR, LIST Listing data set and password section
Listing Data Set . . .
                                  (If Search-For data set password protected)
Data Set Password
Enter "/" to select option
                                          Execution Mode
                                                                Output Mode
  Specify additional search strings

    1. Foreground

    View

                                         F7=Backward F8=Forward
F1=Help
              F2=Split
                           F3=Exit
F10=Actions F12=Cancel
```



Using ISPF compare and search utilities – Options on the Search-For Utility panel

At the bottom of the Search-For Utility panel, you can select the following options by typing a slash (the symbol /) next to them:

- Specify additional search string option allows you to search for additional strings
- Mixed Mode allows you to scan and parse input data set lines for DBCS text strings
- Bypass selection list if you entered a member pattern above, and you select this field, ISPF bypasses the member selection panel and processes all the members that match the pattern.

You can elect to run the search in the foreground (1) or batch (2) modes, and specify that the output be displayed in either the view (1) or browse (2) modes.

```
RefList Utilities Help
                             Search-For Utility
Command ===>
ISPF Library:
                                 (Blank or pattern for member selection list,
Other Partitioned, Sequential or VSAM Data Set:
  Data Set Name . .
                                (If not cataloged)
  Volume Serial . . . _____
Listing Data Set . . . SRCHFOR.LIST
                                 (If Search-For data set password protected)
Data Set Password
                       Additional options
Enter "/" to select option
                                         Execution Mode
                                                               Output Mode
  Specify additional search strings

    Foreground

  Mixed Mode
                                            Batch
                                                                  Browse
  Bupass selection list
                           F3=Exit
                                        F7=Backward F8=Forward
 10=Actions F12=Cancel
```



Using ISPF compare and search utilities – Specifying search strings and keywords

When you enter the search string in the Search string field, you can also include one of the following keywords after it:

- PREFIX look for a match at the beginning of words
- SUFFIX look for a match at the end of words
- WORD look only for a complete match You cannot include multiple keywords on one line, however, so if you want to search for the same string at the beginning or end of a word, place the same search string on two different lines, one with PREFIX and one with SUFFIX, as shown here.

When you specify multiple search strings, you may also supply the keyword C, which stands for continuation. In this case, ISPF will only search for lines that contain all the search strings.

```
Search-For Strings
   Command ===>
                     Specify 1 or more Search Strings below
         CURRENT-DAY PREFIX
         CURRENT-DAY SUFFIX
              Press ENTER to start search or END command to exit
    F1=Help
                  F2=Split
                                               F7=Backward
                                                             F8=Forward
                                 F3=Exit
                               F12=Cancel
    F9=Swap
                 F10=Actions
F1=Help
             F2=Split
                          F3=Exit
                                        F7=Backward F8=Forward
                                                                  F9=SHap
F10=Actions F12=Cancel
                                                                         09/032
```



Using ISPF compare and search utilities – Using the Search-For utility - simulation

Let's try it. You have a PDS named SMCHUGH.TEST.COBOL and you want to search all its members for the following two strings:

- current-day
- current-month

When you are ready to try the simulation, click the Launch button.

```
Menu RefList Utilities Help
                           Search-For Utility
Command ===>
                                                              More:
Search String . . 'current-day'
ISPF Library:
  Project . . SMCHUGH
  Group . . . TEST
  Type . . . . COBOL
                              (Blank or pattern for member selection list,
  Member . . . ⋅
                               "x" for all members)
Other Partitioned, Sequential or VSAM Data Set:
  Data Set Name . . .
  Volume Serial . . . (If not cataloged)
Listing Data Set . . . SRCHFOR.LIST
Data Set Password . . (If Search-For data set password protected)
Enter "/" to select option
                                      Execution Mode
                                                          Output Mode
Specify additional search strings
                                                          1 1. View

    1. Foreground

F1=Help
           F2=Split
                         F3=Exit
                                     F7=Backward F8=Forward
                                                             F9=Sнар
F10=Actions F12=Cancel
                                                                    22/043
```



Using ISPF compare and search utilities – Exploring the Extended Search-For Utility panel

Select Option 15 on the Utility Selection Panel to use the Extended Search-For (Search-ForE) utility, which provides far more flexibility than the Search-For utility. In the Search DS Name field, type the data set name using the standard TSO conventions, including quotes for fully qualified names. For a PDS you can enter a single member, an asterisk to search all members, or a blank or pattern to see a member list for selection.

You can specify your search strings in the same format as the Search-For facility with a small difference. If you want the search to match only uppercase characters, enter the search strings on one or more of the Caps lines. If you want the search to find only an exact case match, enter the string in one of the Asis fields exactly as you want it.

```
Utilities Options Help
                        Extended Search-For Utility
                 Data set parameters section
                             (blank/pattern - member list, * - search all)
(Leave Search DSN "blank" for concatenated-uncataloged-password panel)
Enter Search Strings and Optional operands (WORD/PREFIX/SUFFIX,C)
                 Search string and keywords section
            . . . SRCHFOR.LIST
Statements Dsn
     "/" to select option
                               Execution Mode
                          F3=Exit
F1=Help
             F2=Split
                                       F7=Backward F8=Forward
F10=Actions F12=Cancel
                                                                        04/01!
```



Using ISPF compare and search utilities – Exploring the Extended Search-For Utility panel continued

The Listing DSN is the name of the data set in which you want ISPF to save the results of the search. The default data set name is *prefix.userid*.SRCHFOR.LIST.

The Process Options tell Search-ForE how to process the Search-For operation.

The additional options section gives you the option of bypassing the selection list. If you use a pattern in the member field, selecting this option will bypass the selection list and search all members that contain the pattern.

You can also select to process in either the foreground or batch mode and to display the output in either the view or browse mode.

Menu Utilities Options Help	
Extended Search-For Utilit	y
Command ===>	More: -
(Leave Search DSN "blank" for concatenated-uncatalo	ged-password panel)
Enter Search Strings and Optional operands (WORD/PR	EFIX/SUFFIX,C)
Caps	
Caps	
Caps	
Asis	
Asis	
Listing and statement data sets and process	s options
Process Options	
Statements Dsn	
Enter "/" to select option Execution Mode	Output Mode
Bypass selection list 1 1. Foreground	1 1. View
Additional options 2. Batch	2. Browse
F1=Help F2=Split F3=Exit F7=Backward	
F10=Actions F12=Cancel	
	94/



Using ISPF compare and search utilities – Specifying processing options for Search-ForE

The Process Options tell Search-ForE how to process the Search-For operation. You can type these keywords in the Process Options field, or enter a P on the command line and press the Enter key to select them from a panel.

To select an option, type a slash (the symbol /) next to it.

Three options (SEQ, NOSEQ, and COBOL) deal with how to process sequence numbers in the file. The ANYC option causes your search strings to match on "any" case, either upper or lower. If you select this option, it does not matter if you type the search strings on the Caps lines or Asis lines.

When you have selected all the options you want to include, press the Enter key. The option keywords appear in the Process Options field on the Search-ForE Utility panel.

```
Enter "/" to select option or "blank" to remove.
                                                  Scroll to view selections.
Press Enter/End to process or Return/Cancel to exit.
                        Input Process Control Options
  SEQ
            - Ignore FB 80/VB 255 standard sequence number columns, or
  NOSEO
            - Process FB 80/VB 255 standard sequence number columns as text.
   COBOL
            - Ignore COBOL FB 80 sequence number columns 1-6.
  MIXED
            - Data may contain DBCS strings delimited by SO/SI characters.
            - Text string matches on "any" (upper or lower) case.
            - Search duplicate members in a PDS concatenation.
   CKPACKL - Check and unpack data before searching data sets or members.
            - Stop search on first matched text string.
   ALLMEMS - Search all members including alias entries.
   FINDALL - Require all strings found for return code 1.
                            Do not Process Options
            - Do not process "assembler" lines with "*" in column 1.
   DPADCMT - Do not process "--" comments and blank compare lines.
           - Do not process lines with "*" in column 7.
           - Do not process lines with "C" in column 1
              F2=Split
                           F3=Exit
                                        F7=Backward F8=Forward
F12=Cancel
                                                                          07/002
```



Using ISPF compare and search utilities – Refining your search

You can use process statements to complement and refine your search. If you have a data set containing process statements, enter its name in the Statements Dsn field.

You can create a statement data set by typing an E at the command prompt and pressing the Enter key. If your statement data set does not exist, ISPF allocates it, then displays the panel shown here. You can enter process statements like the examples given at the bottom of the panel. Two important process statements are SRCHFOR and SRCHFORC. These statements allow you to build search strings into the process statement data set for use over and over again through different searches.

```
SMCHUGH, SRCHFOR, STMTS
Command ===>
                                                             Scroll ===> PAGE
  Enter or change Process Statements in the EDIT window below:
                 ************** Top of Data *******
      SRCHFORC 'DIVISION
             ****** of Data ****
  Examples
                              Explanation
         ABCD', W
                           Search for the word "ABCD"
         'DEFG
                           "DEFG" must be on same line as word "ABCD"
CMPCOLM 1:60 75:90
                           Search columns 1:60 and 75:90 for string(s)
      'PAGE '.87:95
                           Exclude line if "PAGE" found in columns 87:99
                           Exclude if "PAGE " found anywhere on line
         PAGE
SELECT
        MEM1, MEM2
                           Search only members MEM1 and MEM2 of PDS
F1=Help
             F2=Split
                          F3=Exit
                                       F5=Rfind
                                                    F6=Rchange
                                                                 F7=Up
F8=Down
             F9=Swap
                         F10=Left
                                      F11=Right
                                                   F12=Cancel
                                                                        07/02
```



Using ISPF compare and search utilities – Summary

In this module, *Using the ISPF compare and search utilities*, you have learned:

- How to access the ISPF compare and search utilities
- That the four compare and search utilities are actually just different interfaces to the same SuperC utility
- How to use SuperC, the basic compare utility, to find line-by-line differences between data sets
- How to use SuperCE, the extended compare utility, to perform more complex comparisons
- How to use Search-For, the basic search utility, to find character strings in data set members
- How to use Search-ForE, the extended search utility, to perform more advanced searches and to create process statement data sets.